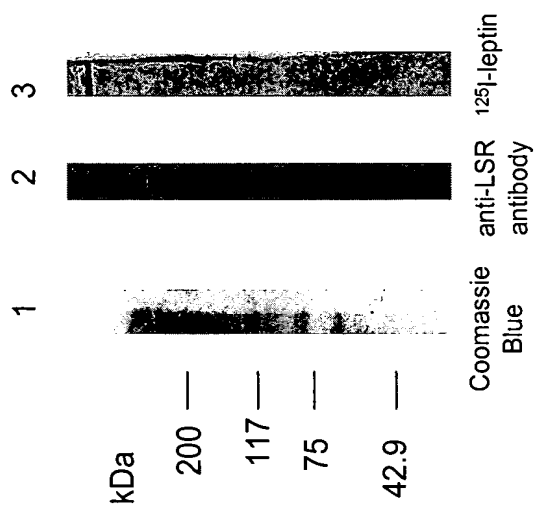
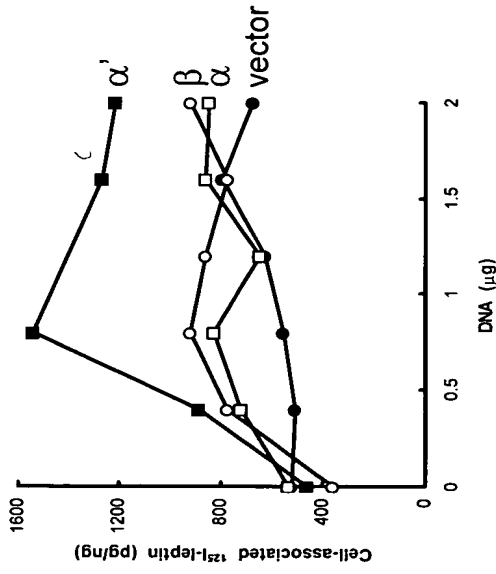


Figure 1

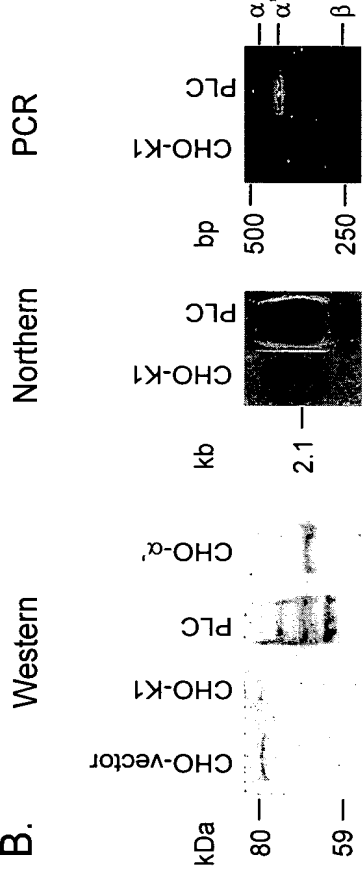


**Figure 2**

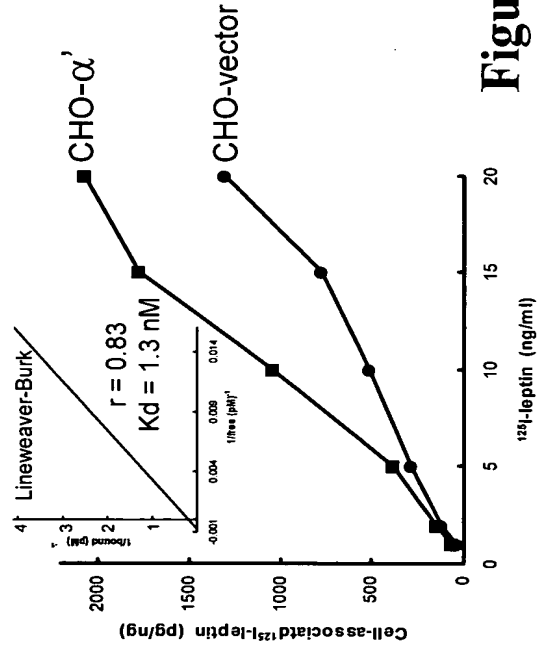
# A. Transient transfection



# B.



# C. α' stable transfection: <sup>125</sup>I-leptin binding



# D. α' stable transfection: <sup>125</sup>I-leptin degradation

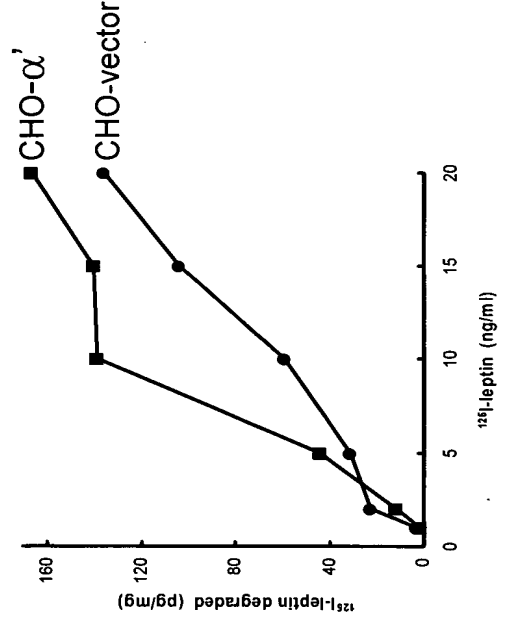
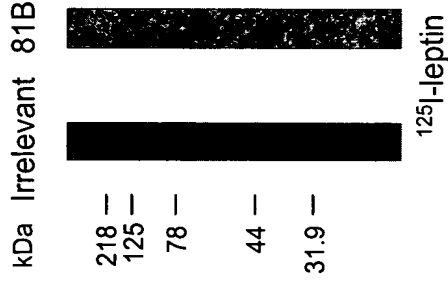
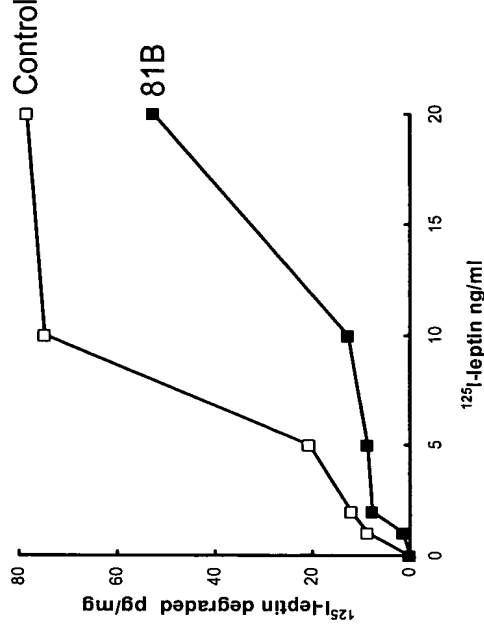


Figure 3

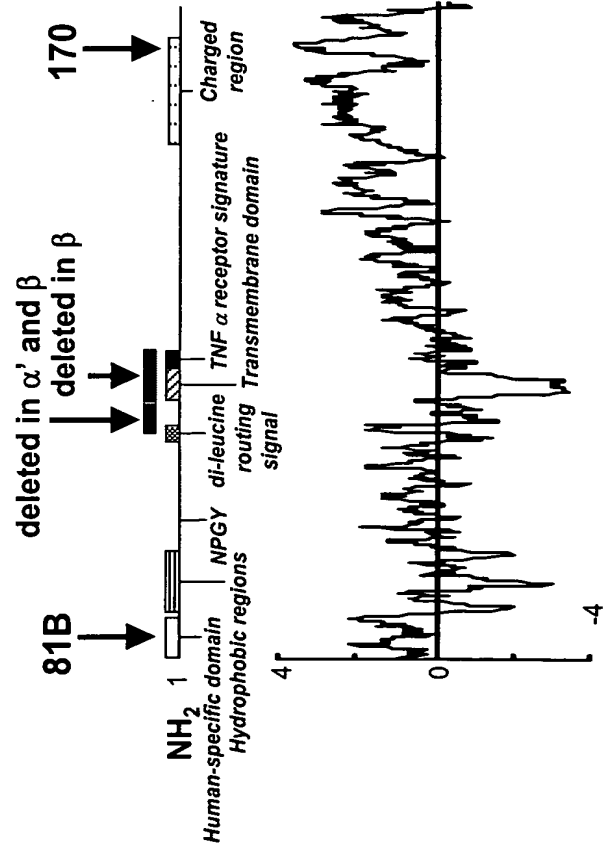
# A. <sup>125</sup>I-leptin binding



# B. <sup>125</sup>I-leptin degradation



# C. Schematic diagram of human LSR protein motifs



# D. FACS Analysis

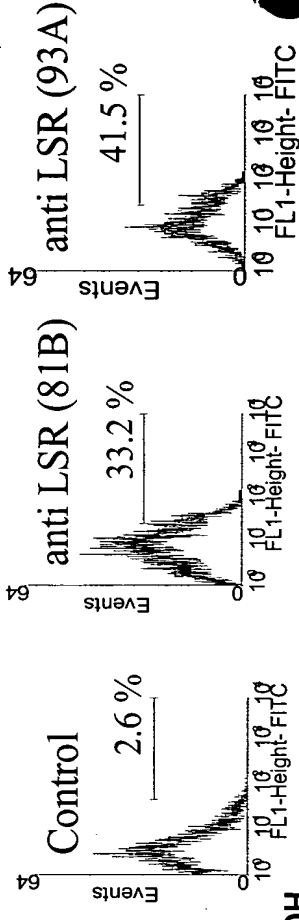
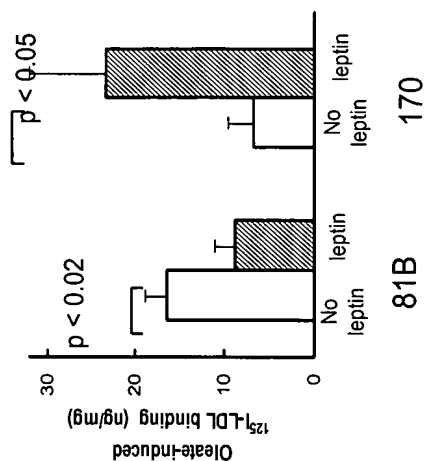
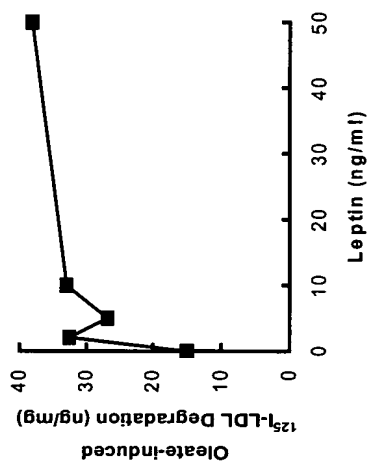
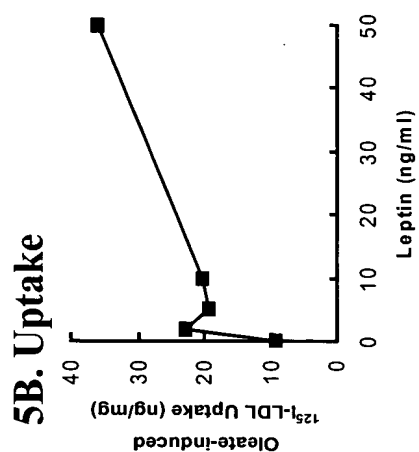
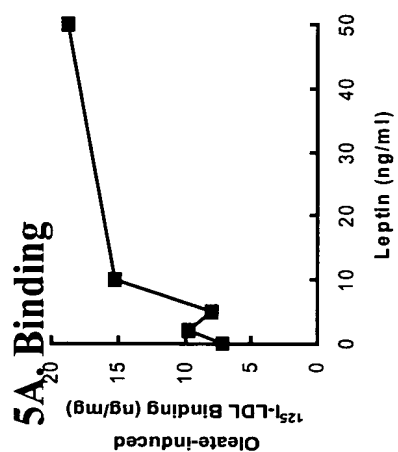
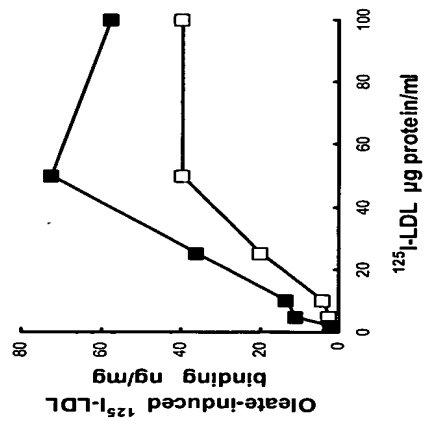


Figure 4

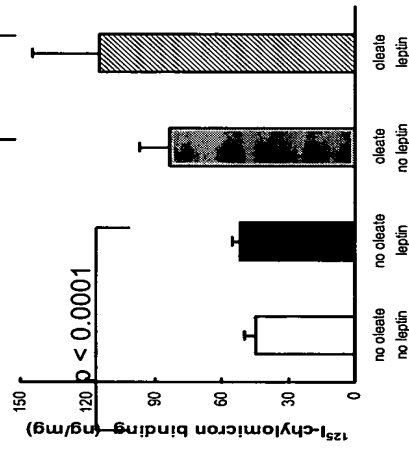


## Figure 5

### 6.A LDL



### 6.B Chylomicrons



### 6.C Antibody

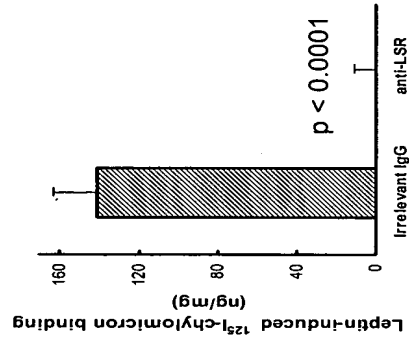
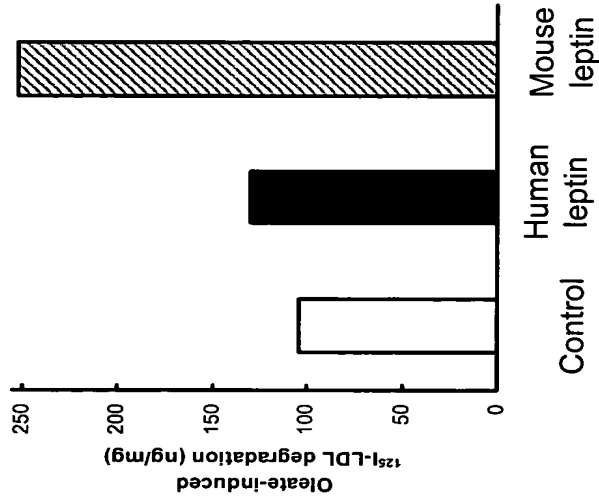


Figure 6

7A. Rat hepatocytes



7B. *db<sup>pas</sup>/db<sup>pas</sup>* postprandial plasma TG

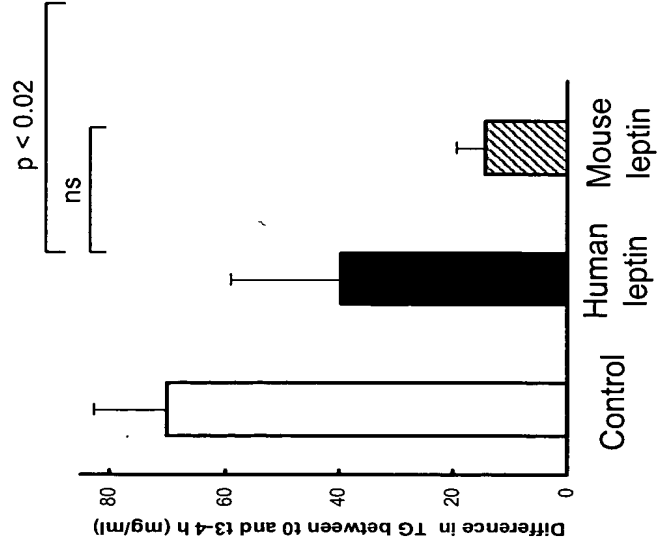
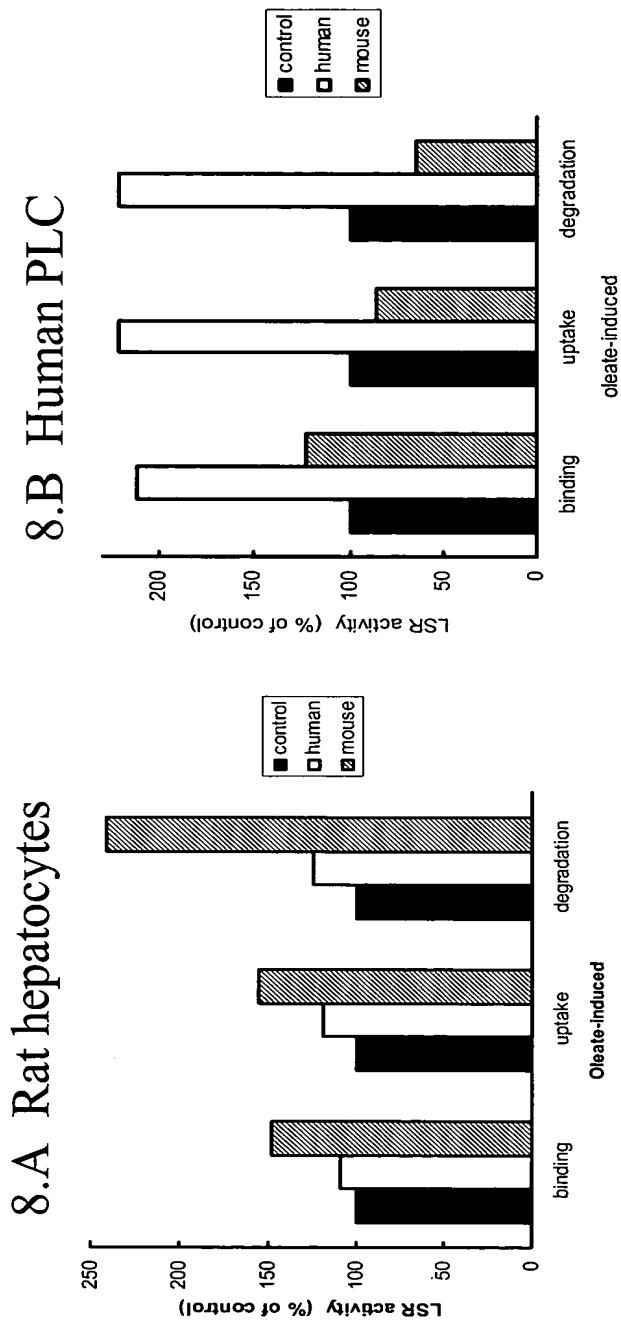


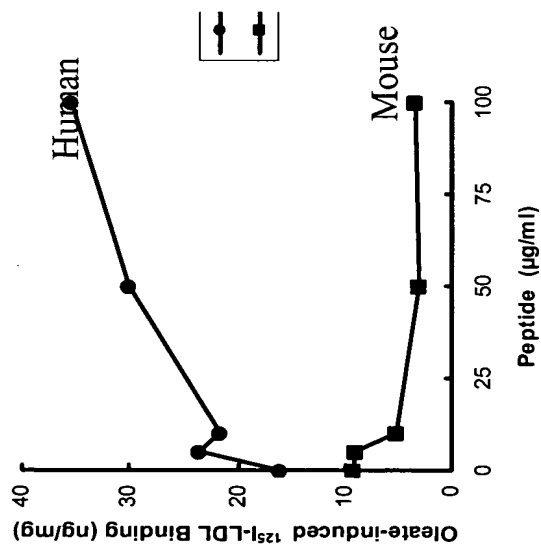
Figure 7



**Figure 8**



# 9.A Binding



# 9.B Degradation

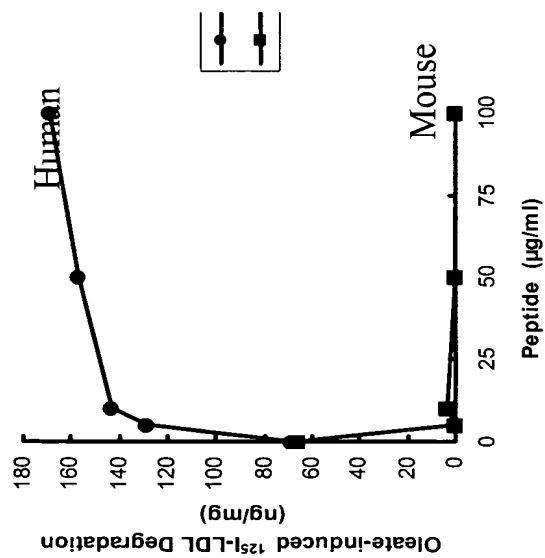
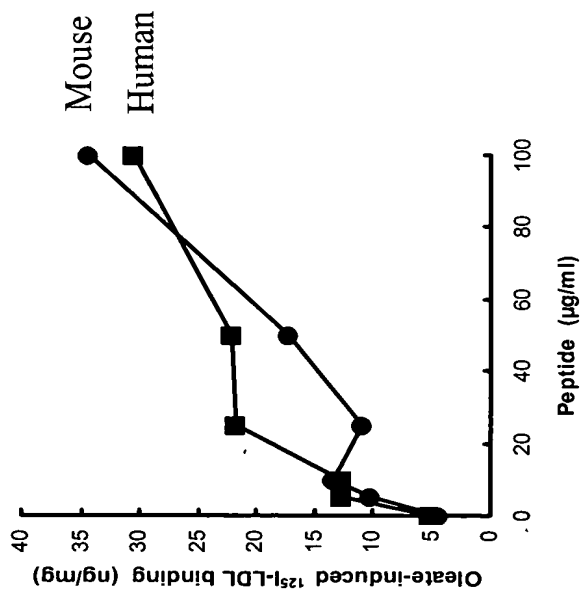


Figure 9

00000"03303300

10.A Binding



10.B Degradation

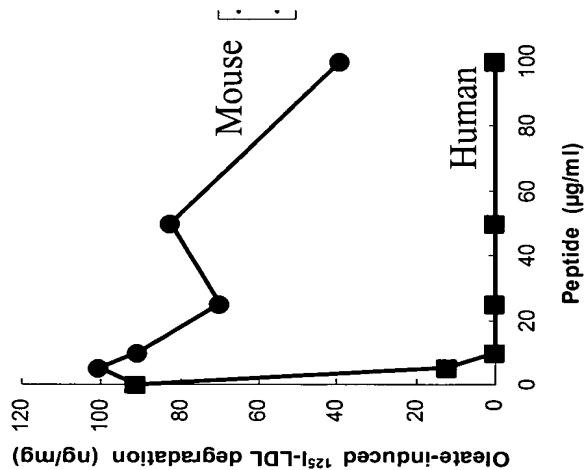


Figure 10

Effect of mouse leptin (A) or leptin peptide (B) on postprandial plasma TG response in ob/ob mice.

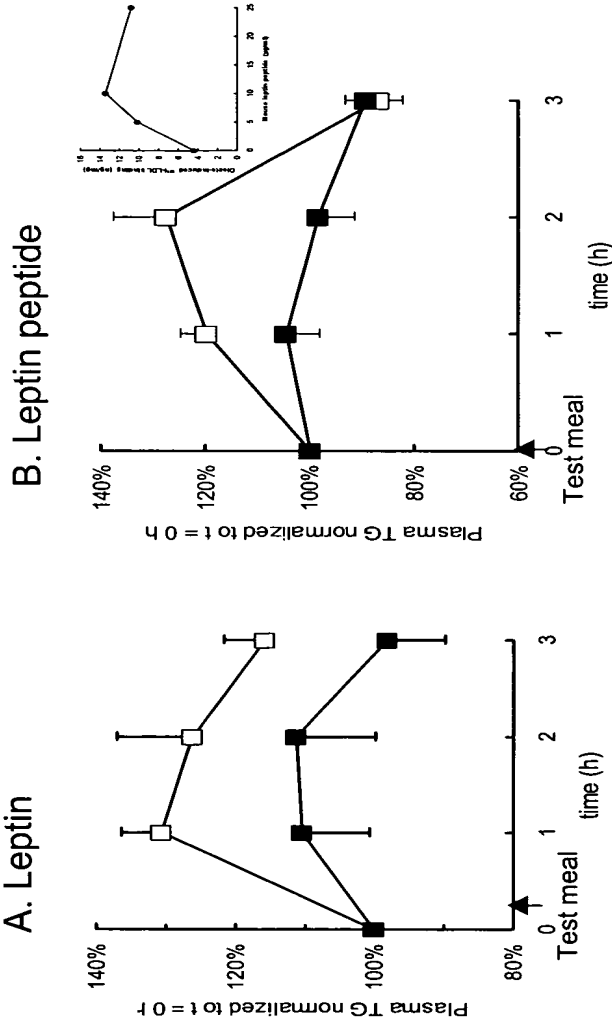


Figure 11

*Effect of test meal with and without leptin injection on postheparin lipolytic activity in  $db^{Pas}/db^{Pas}$  mice*

	Postheparin lipolytic activities in $db^{Pas}/db^{Pas}$ ( $\mu\text{mol FFA/ml/h}$ )
No high-fat test meal	$11.7 \pm 2.4$
High-fat test meal	$19.5 \pm 9.2$ ns
High-fat test meal + 50 $\mu\text{g}$ leptin	$12.2 \pm 2.7$ ns

ns = not significant).

**Figure 12**

1	M	H	G	T	L	C	G	P	L	W	P	Y	L	F	Y	V	Q	A	P	I	Q	K	V	T	G	L	D	F	I	P	G	L	H	P	I	L	Homo sapiens																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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141	S	T	E	V	A	L	S	R	L	Q	G	S	L	Q	D	M	L	W	Q	L	D	L	S	P	G	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

## Figure 13

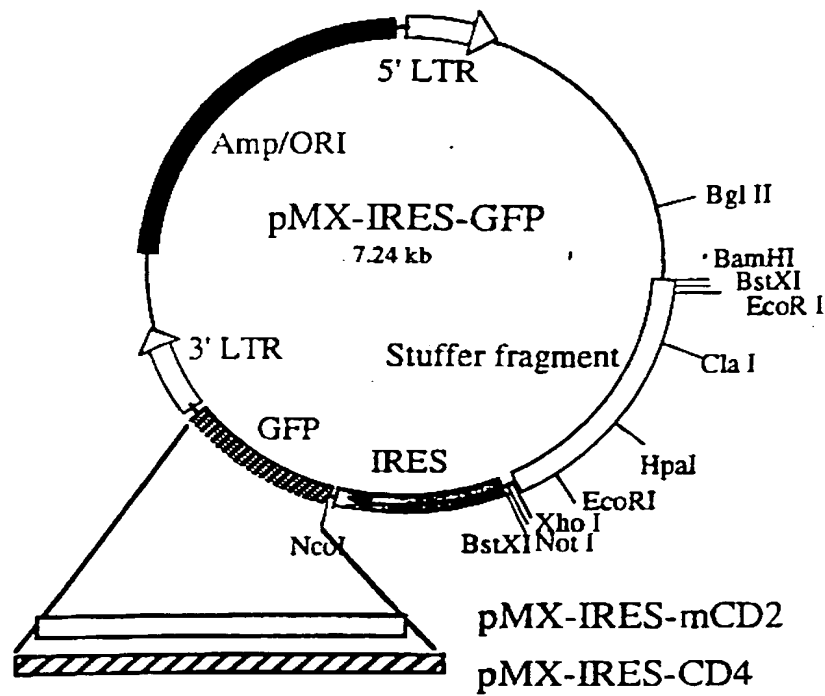
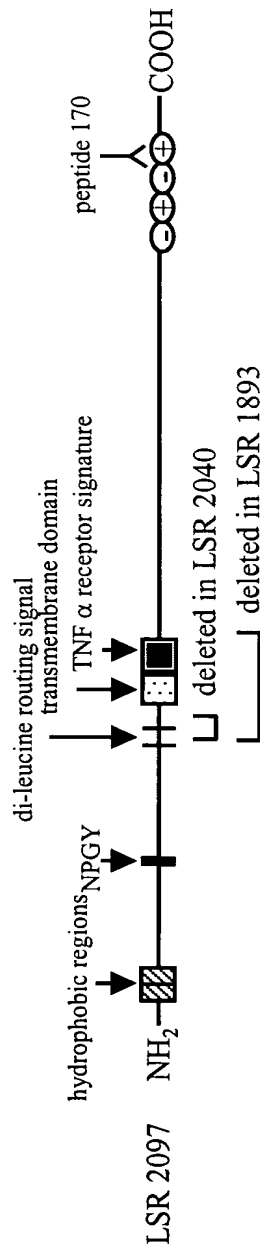


Figure 14

# Plan for creation of truncated forms of LSR



1 EcoRI SalI

Truncates at AA 145 just prior to the NPGY (nt 437 of the cDNA)

2 EcoRI SacI

Truncates at AA 234 just prior to exon 4 (nt 703 of the cDNA)

3 SacI XbaI

Use alpha so Sac I cuts in exon 4, this effectively deletes the di-leucine signal.  
Start at nt 744 which will start at AA 249 and proceed through the C-term.

4a-c EcoRI KpnI

Truncates at AA 350 (nt 1052) near the end of exon 6

a is from LSR  $\alpha$ , b is from LSR  $\alpha'$  and c is from LSR  $\beta$ .

5 KpnI XbaI

Contains C-term. end only exon 7 - end

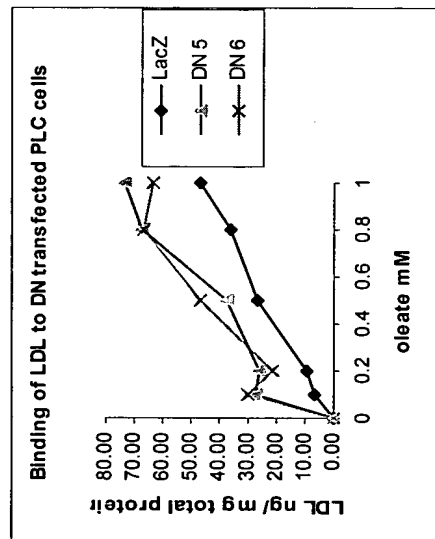
AA 353 (nt 1057) - AA 650 (nt 1950 of coding)

6 KpnI XhoI

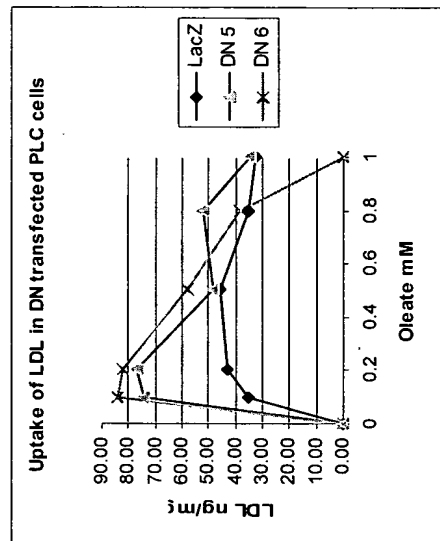
AA 353 (nt 1057) in exon 7 - AA 541 (nt 1625) -RSRS domain  
in exon 9

Figure 15

16A



16B



16C

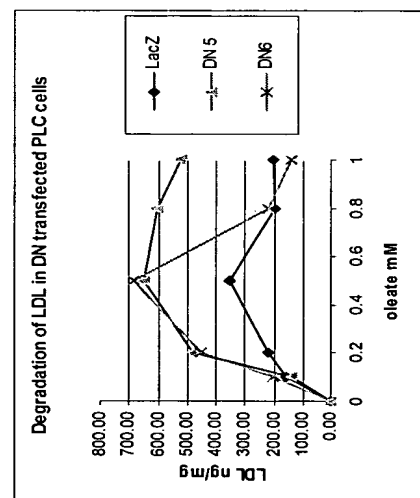
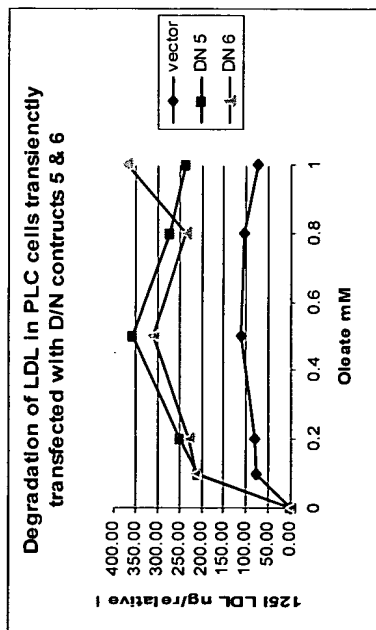
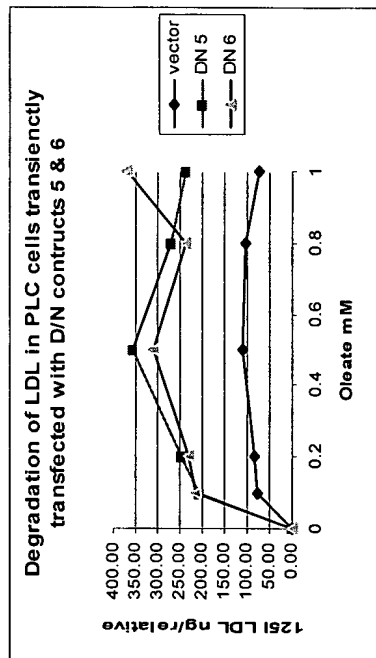


Figure 16

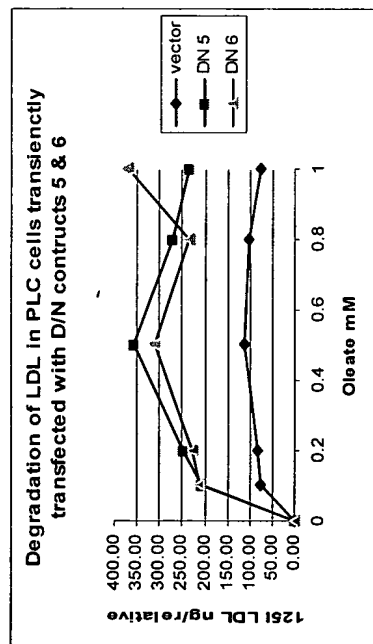




17A



17B



17C

Figure 17

18/54

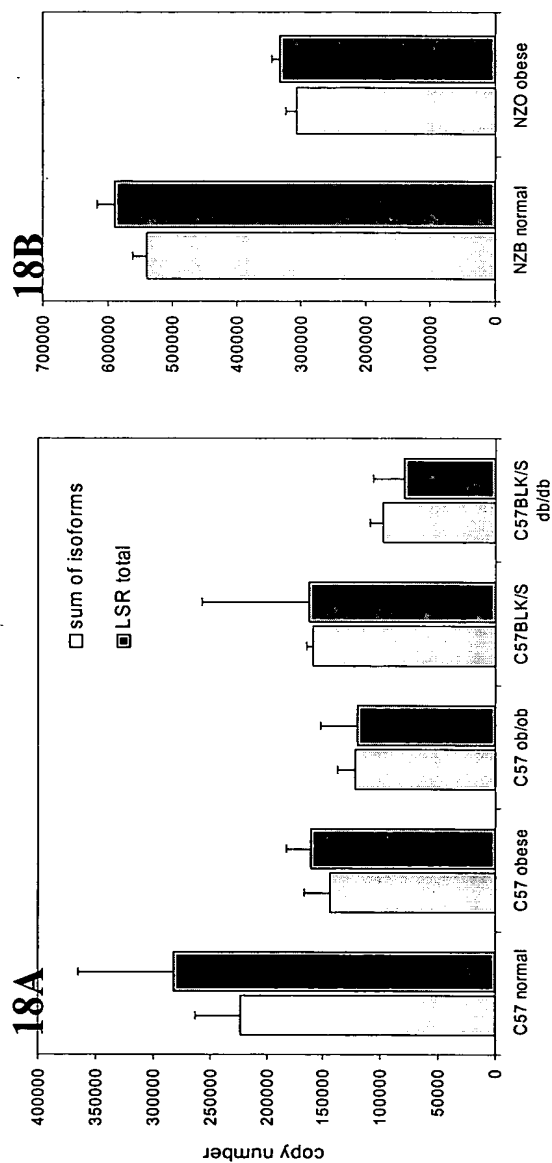


Figure 18

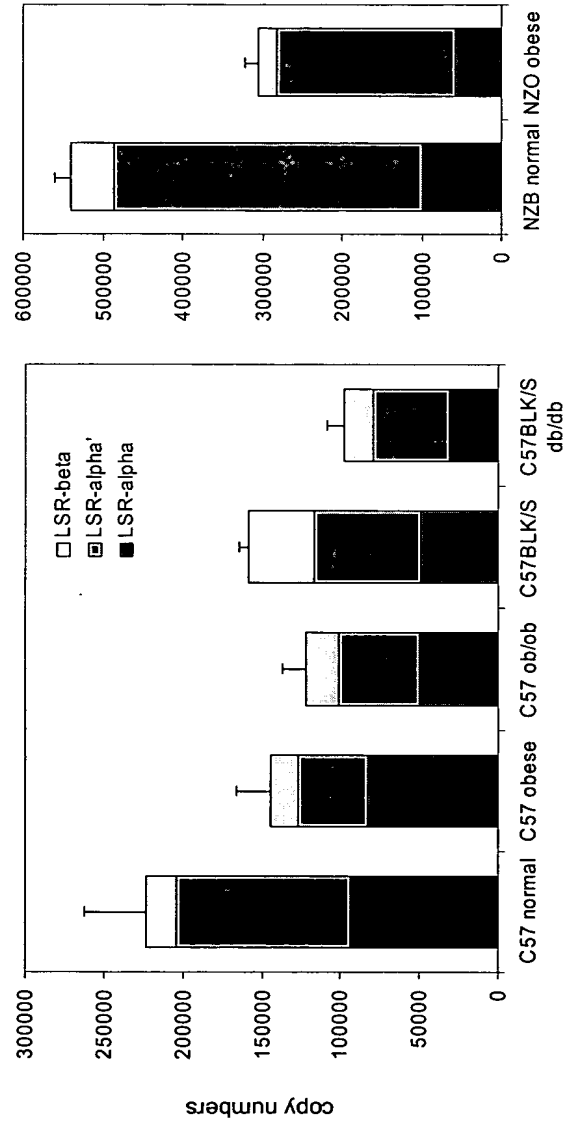


Figure 19

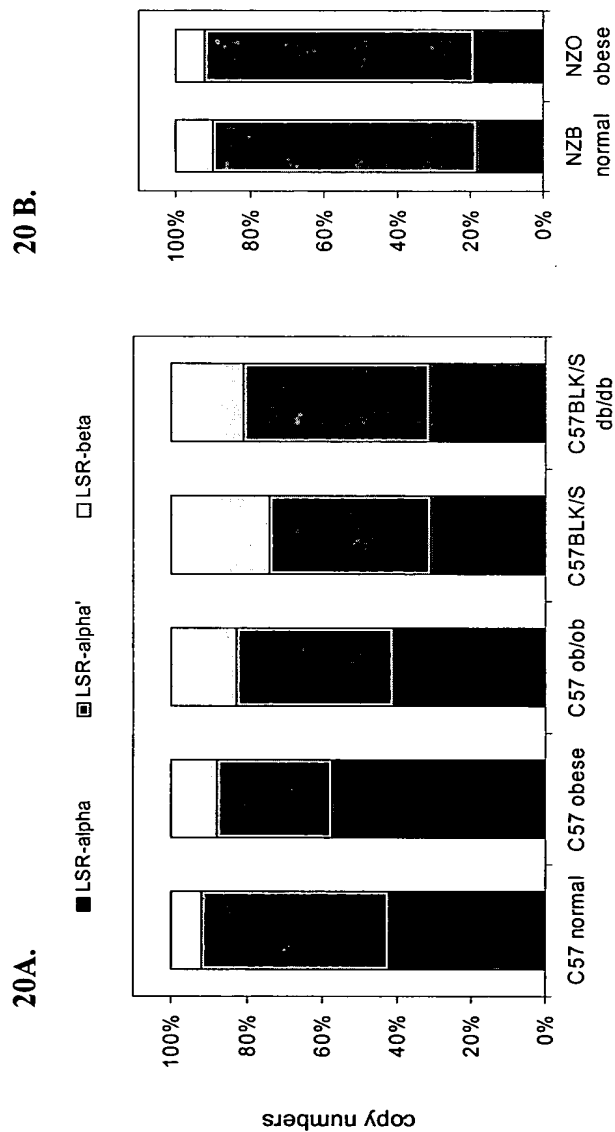


Figure 20

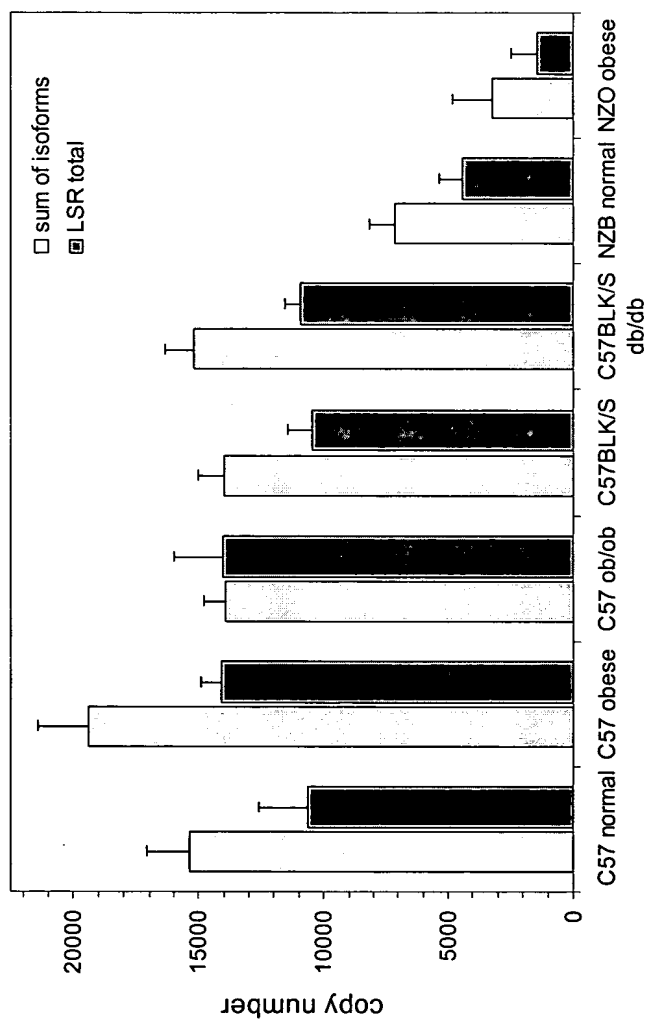


Figure 21

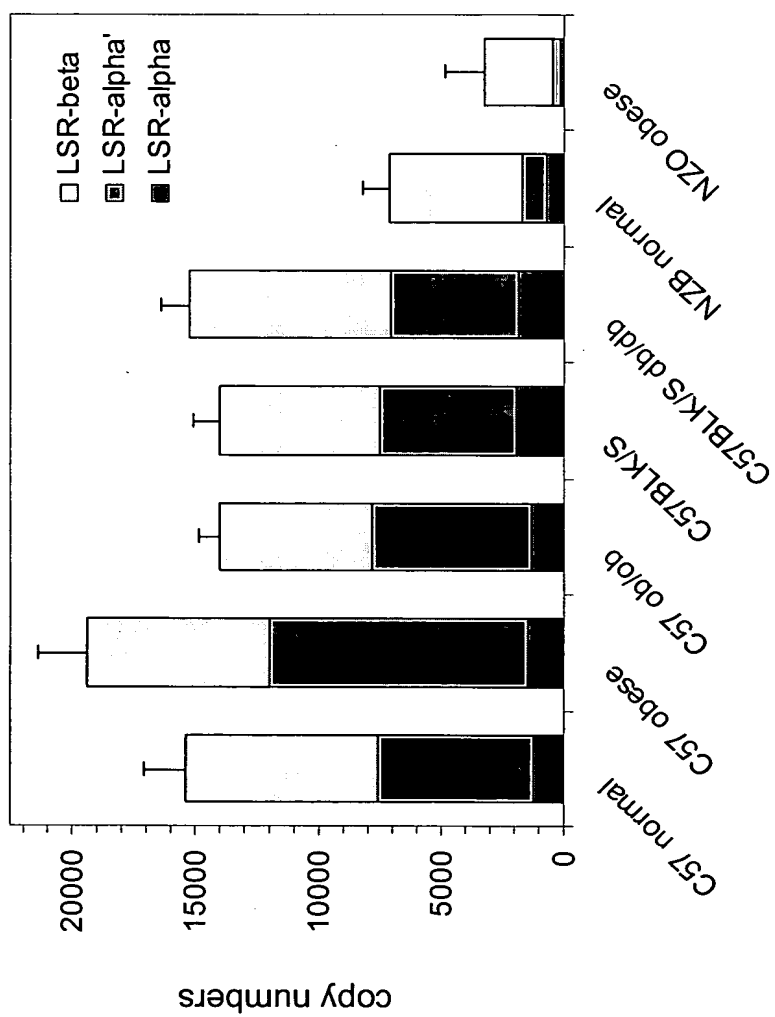


Figure 22



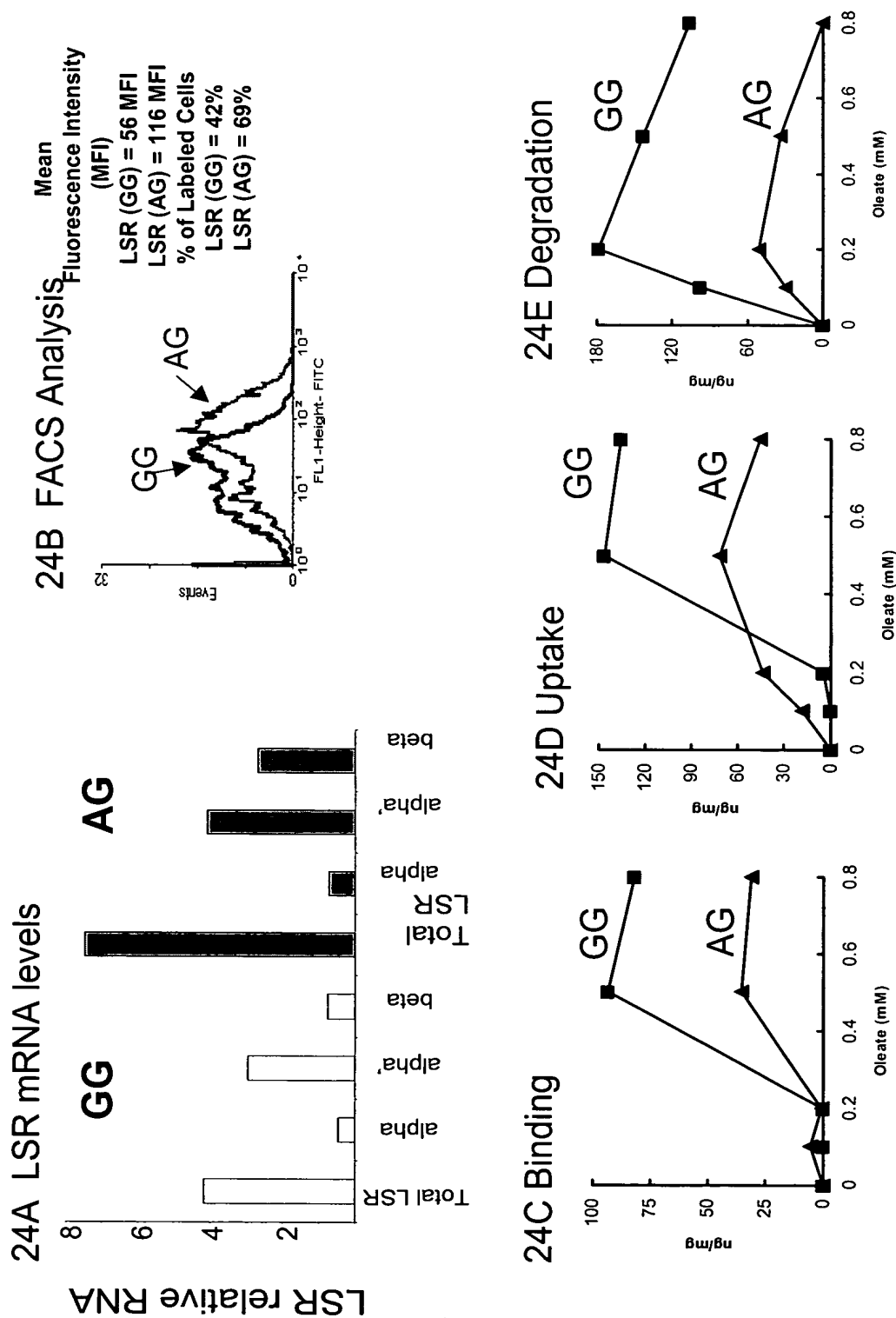


Figure 24



**Table**  
**Characteristics of recombinant ZFPs directed toward LSR sequences.**

ID#	ZFP	Fold Activation	Kd (nM)	Target Sequence
5182	2B-1A	21.5	0.10	AAGGTCGCCtatGGTGCAGAC (SEQ ID NO:102)
5183	4A-3A	8.7	0.05	GTGGGAGCCcgGGGGCTGGA (SEQ ID NO:103)
5185	6A-5A	8.4	0.02	TGGGGGTGGCGGGCGGGG (SEQ ID NO:104)
5186	8A-7B	6.5	0.02	CCGGGAGTGcgCAGGGGGTA (SEQ ID NO:105)
5205	1A-7B	29.7	0.30	GTGGCTGCACAAGGTCGCC (SEQ ID NO:106)

**Figure 25**

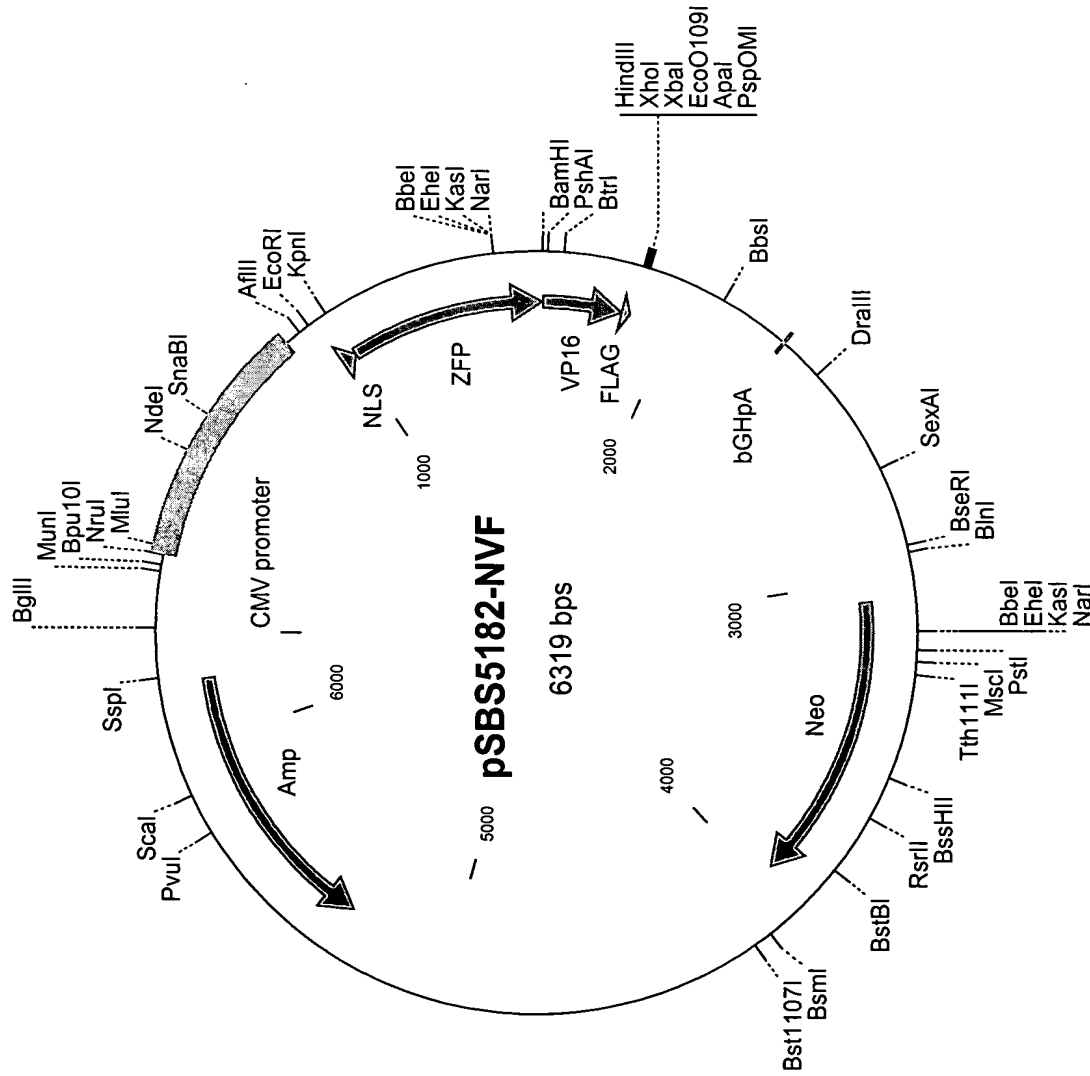


Figure 26A

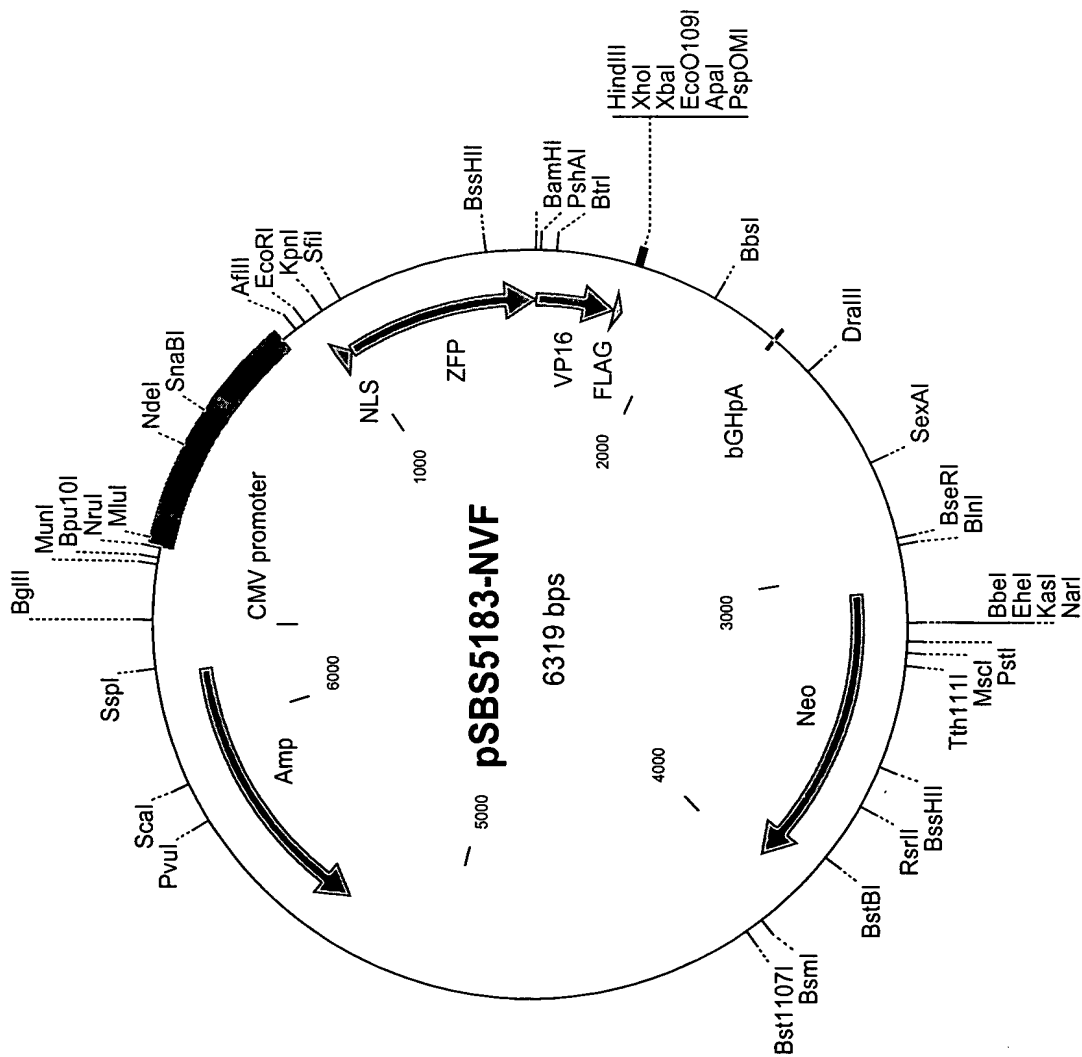


Figure 26B

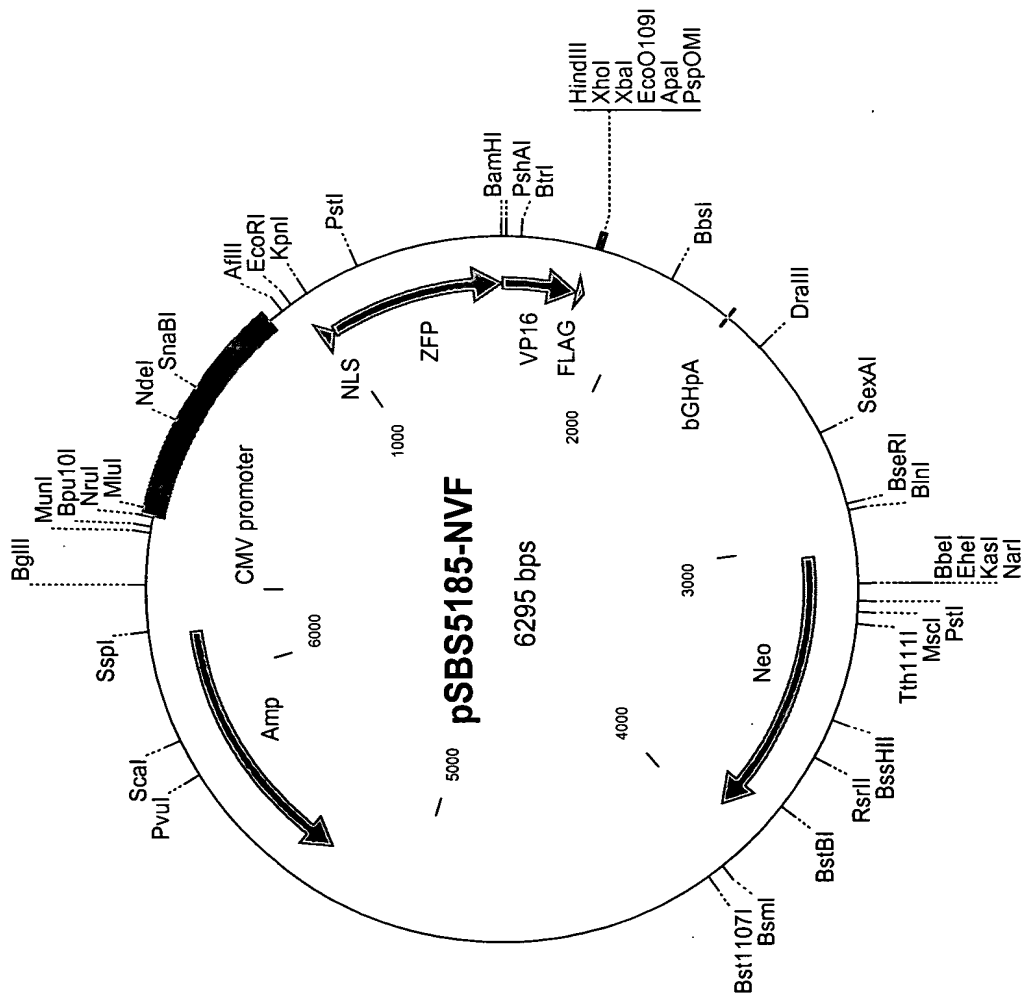


Figure 26C

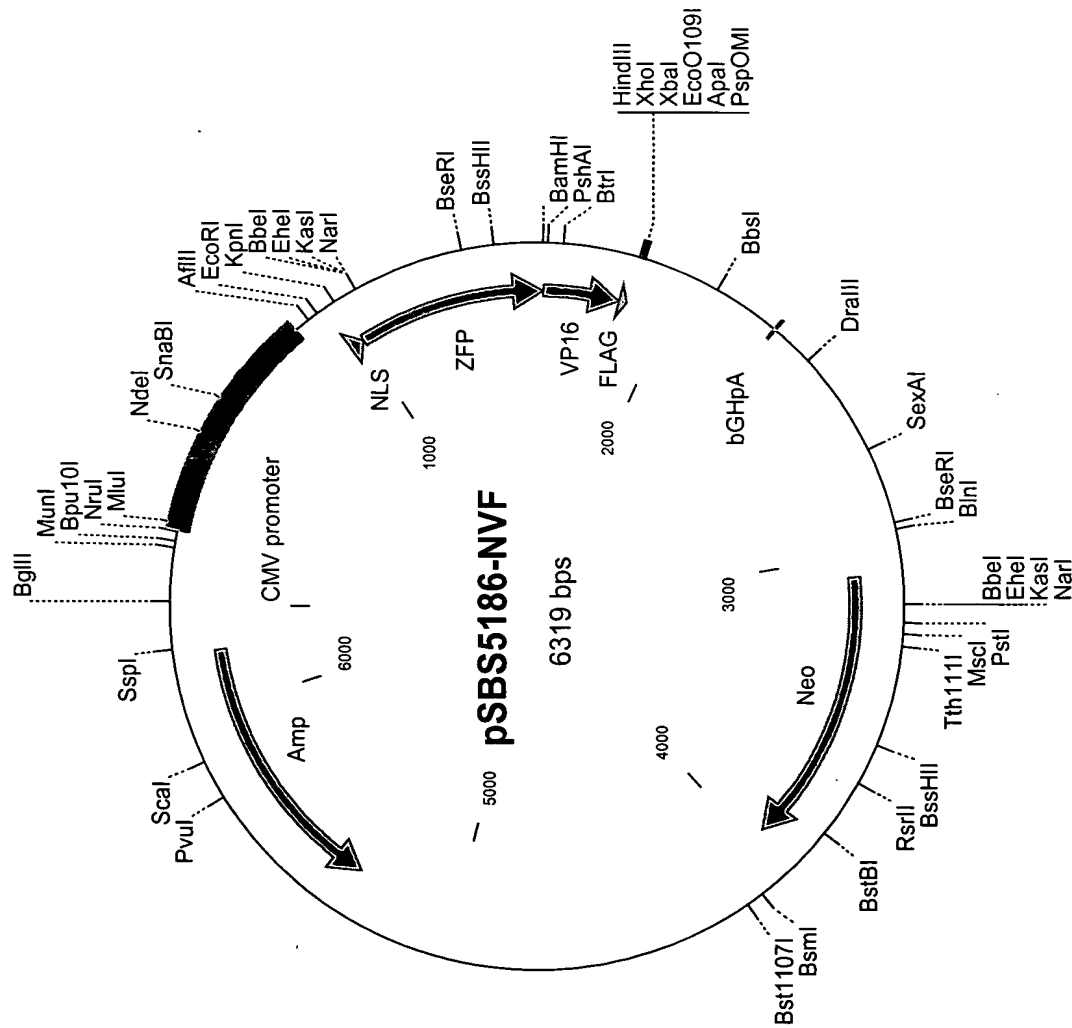


Figure 26D

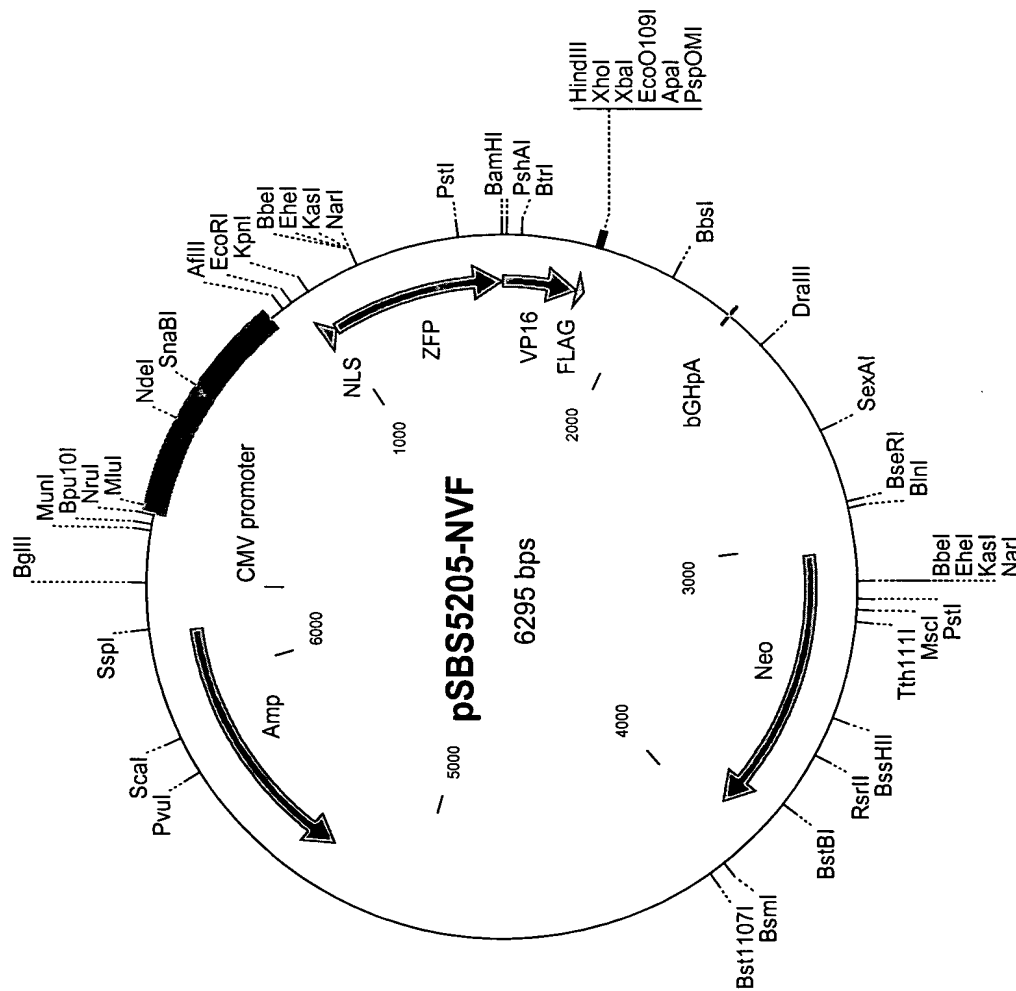


Figure 26E

LOCUS pSBS5182-N 6319 bp DNA CIRCULAR SYN  
 DEFINITION Ligation of 5182 into NVF (KpnI, BamHI)  
 ACCESSION pSBS5182-N  
 REFERENCE 1 (bases 1 to 6319)  
 FEATURES Location/Qualifiers  
     CDS 956..1003  
         /gene="NLS"  
         /product="Nuclear Localization Signal"  
     CDS 1004..1597  
         /gene="ZFP"  
         /product="LSR 2B-1A"  
     CDS 1598..1840  
         /gene="VP16"  
         /product="VP16 activation domain"  
     CDS 1841..1867  
         /gene="FLAG"  
         /product="FLAG epitope"  
     CDS 3064..3947  
         /gene="Neo"  
         /product="neomycin resistance"  
     CDS complement (5321..6181)  
         /gene="Amp "  
         /product="Ampicillin resistance"  
 BASE COUNT 1451 a 1683 c 1651 g 1534 t  
 ORIGIN  
     1 GACGGATCGG GAGATCTCCC GATCCCCTAT GGTGCGACTCT CAGTACAATC TGCTCTGATG  
     61 CCGCATAGTT AAGCCAGTAT CTGCTCCCTG CTTGTGTGTT GGAGGTCGCT GAGTAGTGCG  
     121 CGAGCAAAAT TTAAGCTACA ACAAGGCAAG GCTTGACCGA CAATTGCATG AAGAATCTGC  
     181 TTAGGGTTAG GCGTTTTGCG CTGCTTCGCG ATGTACGGGC CAGATATACG CGTTGACATT  
     241 GATTATTGAC TAGTTATTAA TAGTAATCAA TTACGGGGTC ATTAGTTCAT AGCCCATATA  
     301 TGGAGTTCCG CGTTACATAA CTTACGGTAA ATGGCCCGCC TGGCTGACCG CCCAACGACC  
     361 CCCGCCCCATT GACGTCAATA ATGACGTATG TTCCCATAGT AACGCCAATA GGGACTTTCC  
     421 ATTGACGTCA ATGGGTGGAC TATTTACGGT AAATGCCCCA CTTGGCAGTA CATCAAGTGT  
     481 ATCATATGCC AAGTACGCCC CCTATTGACG TCAATGACGG TAAATGGCCC GCCTGGCATT  
     541 ATGCCCAGTA CATGACCTTA TGGGACTTTC CTACTTGGCA GTACATCTAC GTATTAGTCA  
     601 TCGCTATTAC CATGGTGATG CGGTTTTGGC AGTACATCAA TGGGCGTGGA TAGCGGTTTG  
     661 ACTCACGGGG ATTTCCAAGT CTCCACCCCA TTGACGTCAA TGGGAGTTTG TTTTGGCACC  
     721 AAAATCAACG GGACTTTCCA AAATGTCGTA ACAACTCCGC CCCATTGACG CAAATGGGCG  
     781 GTAGGCGTGT ACGGTGGGAG GTCTATATAA GCAGAGCTCT CTGGCTAACT AGAGAACCCA  
     841 CTGCTTACTG GCTTATCGAA ATTAATACGA CTCACTATAG GGAGACCCAA GCTGGCTAGC  
     901 GTTTAAACTT AAGCTGATCC ACTAGTCCAG TGTGGTGGAA TTCGCTAGCG CCACCATGGC  
     961 CCCCAAGAAG AAGAGGAAGG TGGGAATCCA TGGGGTACCG GGCAAGAAGA AGCAGCACAT  
     1021 CTGCCACATC CAGGGCTGTG GTAAAGTTTA CGGCGACCGC TCCAACCTGA CCCGCCACCT  
     1081 GCGCTGGCAC ACCGCGGAGA GGCCTTTCAT GTGTACATGG TCCTACTGTG GTAAACGCTT  
     1141 CACCCAGTCC GGCACCTGA CCCGCCACAA GCGTACCCAC ACCGGTGAGA AGAAATTTGC  
     1201 TTGTCCGGAA TGTCCGAAGC GCTTCATGAT GTCCACCCAC CTGTCCCGCC ACATCAAGAC  
     1261 CCACCAGAAC AAGAAGGGTG GATCTGGTGA TGGTGGCCGT CGCGGTGCCG GTTCTGGCAA  
     1321 GAAGAAGCAG CACATCTGCC ACATCCAGGG CTGTGGTAAA GTTTACGGCG AGCGCGGCGA  
     1381 CCTGACCCGC CACCTGCGCT GGCACACCGG CGAGAGGCCT TTCATGTGTA CATGGTCCTA  
     1441 CTGTGGTAAA CGCTTCACCG ACCCGGGCGC CCTGGTGC GC CACAAGCGTA CCCACACCGG

Figure 26F

1501 TGAGAAGAAA TTTGCTTGTC CGGAATGTCC GAAGCGCTTC ATGCGCTCCG ACAACCTGAC  
 1561 CCAGCACATC AAGACCCACC AGAACAAGAA GGGTGGATCC GCGCGCATG CCGATGTCAG  
 1621 CCTGGGGGAC GAGCTCCACT TAGACGGCGA GGACGTGGCG ATGGCGCATG CCGACGCGCT  
 1681 AGACGATTTT GATCTGGACA TGTTGGGGGA CGGGGATTCC CCGGGGCCGG GATTTACCCC  
 1741 CCACGACTCC GCCCCCTACG GCGCTCTGGA TATGGCCGGC TTCGAGTTTG AGCAGATGTT  
 1801 TACCGATGCC CTTGGAATTG ACGAGTACGG TGGGGGCAGC GACTACAAGG ACGACGATGA  
 1861 CAAGTAAGCT TCTCGAGTCT AGAGGGCCCG TTAAACCCG CTGATCAGCC TCGATGTGC  
 1921 CTTCTAGTTG CCAGCCATCT GTTGTGTTGCC CCTCCCCCGT GCCTTCCTTG ACCCTGGAAG  
 1981 GTGCCACTCC CACTGTCCTT TCCTAATAAA ATGAGGAAAT TGCATCGCAT TGTCTGAGTA  
 2041 GGTGTCATTC TATTCTGGGG GGTGGGGTGG GGCAGGACAG CAAGGGGGAG GATTGGGAAG  
 2101 ACAATAGCAG GCATGCTGGG GATGCGGTGG GCTCTATGGC TTCTGAGGCG GAAAGAACCA  
 2161 GCTGGGGCTC TAGGGGGTAT CCCCACGCGC CCTGTAGCGG CGCATTAAAG GCGGCGGGTG  
 2221 TGGTGGTTAC GCGCAGCGTG ACCGCTACAC TTGCCAGCGC CCTAGCGCCC GCTCCTTTTCG  
 2281 CTTTCTTCCC TTCCTTTCTC GCCACGTTTC CCGGCTTTCC CCGTCAAGCT CTAAATCGGG  
 2341 GCATCCCTTT AGGGTTCCGA TTTAGTGCTT TACGGCACCT CGACCCCAA AAACCTGATT  
 2401 AGGGTGATGG TTCACGTAGT GGGCCATCGC CCTGATAGAC GGTTTTTCGC CTTTGTGACG  
 2461 TGGAGTCCAC GTTCTTTAAT AGTGGACTCT TGTTCCAAAC TGGAACAACA CTCAACCCTA  
 2521 TCTCGGTCTA TTCTTTTGAT TTATAAGGGA TTTTGGGGAT TTCGGCCTAT TGGTTAAAAA  
 2581 ATGAGCTGAT TTAACAAAAA TTAAACGCGA ATTAATTCTG TGGAATGTGT GTCAGTTAGG  
 2641 GTGTGGAAAG TCCCAGGCT CCCCAGGCAG GCAGAAGTAT GCAAAGCATG CATCTCAATT  
 2701 AGTCAGCAAC CAGGTGTGGA AAGTCCCCAG GCTCCCCAGC AGGCAGAAGT ATGCAAAGCA  
 2761 TGCATCTCAA TTAGTCAGCA ACCATAGTCC CGCCCCTAAC TCCGCCCATC CCGCCCCTAA  
 2821 CTCCGCCCAG TTCCGCCCAT TCTCCGCCCC ATGGCTGACT AATTTTTTTT ATTTATGCAG  
 2881 AGGCCGAGGC CGCCTCTGCC TCTGAGCTAT TCCAGAAGTA GTGAGGAGGC TTTTTTGGAG  
 2941 GCCTAGGCTT TTGCAAAAAG CTCCCGGGAG CTTGTATATC CATTTTCGGA TCTGATCAAG  
 3001 AGACAGGATG AGGATCGTTT CGCATGATTG AACAAAGATG ATTGCACGCA GGTTCCTCCG  
 3061 CCGCTTGGGT GGAGAGGCTA TTCGGCTATG ACTGGGCACA ACAGACAATC GGCTGCTCTG  
 3121 ATGCCGCCGT GTTCCGGCTG TCAGCGCAGG GCGCGCCGGT TCTTTTTTGT AAGACCGACC  
 3181 TGTCCGGTGC CCTGAATGAA CTGCAGGACG AGGCAGCGCG GCTATCGTGG CTGGCCACGA  
 3241 CGGGCGTTCC TTGCGCAGCT GTGCTCGACG TTGTCACTGA AGCGGGAAGG GACTGGCTGC  
 3301 TATTGGGCGA AGTGCCGGGG CAGGATCTCC TGTCATCTCA CCTTGCTCCT GCCGAGAAAG  
 3361 TATCCATCAT GGCTGATGCA ATGCGGCGGC TGCATACGCT TGATCCGGCT ACCTGCCCAT  
 3421 TCGACCACCA AGCGAAACAT CGCATCGAGC GAGCACGTAC TCGGATGGAA GCCGGTCTTG  
 3481 TCGATCAGGA TGATCTGGAC GAAGAGCATC AGGGGCTCGC GCCAGCCGAA CTGTTTCGCC  
 3541 GGCTCAAGGC GCGCATGCCC GACGGCGAGG ATCTCGTCGT GACCCATGGC GATGCCTGCT  
 3601 TGCCGAATAT CATGGTGGAA AATGGCCGCT TTTCTGGATT CATCGACTGT GGCCGGCTGG  
 3661 GTGTGGCGGA CCGCTATCAG GACATAGCGT TGGCTACCCG TGATATTGCT GAAGAGCTTG  
 3721 GCGGCGAATG GGCTGACCGC TTCCTCGTGC TTTACGGTAT CGCCGCTCCC GATTTCGAGC  
 3781 GCATCGCCTT CTATCGCCTT CTTGACGAGT TCTTCTGAGC GGGACTCTGG GGTTTCGAAAT  
 3841 GACCGACCAA GCGACGCCCA ACCTGCCATC ACGAGATTTT GATTCCACCG CCGCCTTCTA  
 3901 TGAAAGGTTG GGCTTCGGAA TCGTTTTCCG GGACGCCGGC TGGATGATCC TCCAGCGCGG  
 3961 GGATCTCATG CTGGAGTTCT TCGCCCACCC CAACCTGTTT ATTGCAGCTT ATAATGGTTA  
 4021 CAAATAAAGC AATAGCATCA CAAATTTTAC AAATAAAGCA TTTTTTTCAC TGCATTCTAG  
 4081 TTGTGGTTTG TCCAAACTCA TCAATGTATC TTATCATGTC TGTATACCGT CGACCTCTAG  
 4141 CTAGAGCTTG GCGTAATCAT GGTCATAGCT GTTTCCTGTG TGAAATTGTT ATCCGCTCAC  
 4201 AATTCCACAC AACATACGAG CCGGAAGCAT AAAGTGTAAG GCCTGGGGTG CTAATGAGT  
 4261 GAGCTAACTC ACATTAATTG CGTTGCGCTC ACTGCCCCGT TTCCAGTCGG GAAACCTGTC  
 4321 GTGCCAGCTG CATTAATGAA TCGGCCAACG CGCGGGGAGA GGCGGTTTGC GTATTGGGCG  
 4381 CTCTTCCGCT TCCTCGCTCA CTGACTCGCT GCGCTCGGTC GTTCGGCTGC GGCGAGCGGT

Figure 26G



4441 ATCAGCTCAC TCAAAGGCGG TAATACGGTT ATCCACAGAA TCAGGGGATA ACGCAGGAAA  
 4501 GAACATGTGA GCAAAAAGGCC AGCAAAAGGC CAGGAACCGT AAAAAGGCCG CGTTGCTGGC  
 4561 GTTTTTTCCAT AGGCTCCGCC CCCCTGACGA GCATCACAAA AATCGACGCT CAAGTCAGAG  
 4621 GTGGCGAAAC CCGACAGGAC TATAAAGATA CCAGGCGTTT CCCCCTGGAA GCTCCCTCGT  
 4681 GCGCTCTCCT GTTCCGACCC TGCCGCTTAC CGGATACCTG TCCGCCTTTC TCCCTTCGGG  
 4741 AAGCGTGGCG CTTTCTCAAT GCTCAGCTG TAGGTATCTC AGTTCGGTGT AGGTCGTTTCG  
 4801 CTCCAAGCTG GGCTGTGTGC ACGAACCCCC CGTTCAGCCC GACCGCTGCG CCTTATCCGG  
 4861 TAACTATCGT CTTGAGTCCA ACCCGGTAAG ACACGACTTA TCGCCACTGG CAGCAGCCAC  
 4921 TGGTAACAGG ATTAGCAGAG CGAGGTATGT AGGCGGTGCT ACAGAGTTCT TGAAGTGGTG  
 4981 GCCTAACTAC GGCTACACTA GAAGGACAGT ATTTGGTATC TCGCTCTGCTG TGAAGCCAGT  
 5041 TACCTTCGGA AAAAGAGTTG GTAGCTCTTG ATCCGGCAAA CAAACCACCG CTGGTAGCGG  
 5101 TGGTTTTTTT GTTTGCAAGC AGCAGATTAC GCGCAGAAAA AAAGGATCTC AAGAAGATCC  
 5161 TTTGATCTTT TCTACGGGGT CTGACGCTCA GTGGAACGAA AACTCACGTT AAGGGATTTT  
 5221 GGTCAATGAGA TTATCAAAAA GGATCTTCAC CTAGATCCTT TTAAATTAAA AATGAAGTTT  
 5281 TAAATCAATC TAAAGTATAT ATGAGTAAAC TTGGTCTGAC AGTTACCAAT GCTTAATCAG  
 5341 TGAGGCACCT ATCTCAGCGA TCTGTCTATT TCGTTCATCC ATAGTTGCCT GACTCCCCGT  
 5401 CGTGTAGATA ACTACGATAC GGGAGGGCTT ACCATCTGGC CCCAGTGCTG CAATGATACC  
 5461 GCGAGACCCA CGCTCACCAG CTCCAGATTT ATCAGCAATA AACCAGCCAG CCGGAAGGGC  
 5521 CGAGCGCAGA AGTGGTCCTG CAACTTTATC CGCCTCCATC CAGTCTATTA ATTGTTGCCG  
 5581 GGAAGCTAGA GTAAGTAGTT CGCCAGTTAA TAGTTTGCGC AACGTTGTTG CCATTGCTAC  
 5641 AGGCATCGTG GTGTCACGCT CGTCGTTTGG TATGGCTTCA TTCAGCTCCG GTTCCCAACG  
 5701 ATCAAGGCGA GTTACATGAT CCCCCATGTT GTGCAAAAAA GCGGTTAGCT CTTTCGGTCC  
 5761 TCCGATCGTT GTCAGAACTA AGTTGGCCGC AGTGTTATCA CTCATGGTTA TGGCAGCACT  
 5821 GCATAATTCT CTTACTGTCA TGCCATCCGT AAGATGCTTT TCTGTGACTG GTGAGTACTC  
 5881 AACCAAGTCA TTCTGAGAAT AGTGTATGCG GCGACCGAGT TGCTCTTGCC CGGCGTCAAT  
 5941 ACGGGATAAT ACCGCGCCAC ATAGCAGAAC TTTAAAAGTG CTCATCATTG GAAAACGTTT  
 6001 TTCGGGGCGA AAACCTCTCA GGATCTTACC GCTGTTGAGA TCCAGTTCGA TGTAACCCAC  
 6061 TCGTGCACCC AACTGATCTT CAGCATCTTT TACTTTCACC AGCGTTTCTG GGTGAGCAAA  
 6121 AACAGGAAGG CAAAATGCCG CAAAAAAGGG AATAAGGGCG ACACGGAAAT GTTGAATACT  
 6181 CATACTCTTC CTTTTTCAAT ATTATTGAAG CATTTATCAG GGTATTGTGTC TCATGAGCGG  
 6241 ATACATATTT GAATGTATTT AGAAAAATAA ACAAATAGGG GTTCCGCGCA CATTTCCCCG  
 6301 AAAAGTGCCA CCTGACGTC

//

Figure 26H

LOCUS pSBS5183-N 6319 bp DNA CIRCULAR SYN

DEFINITION Ligation of 5183 into NVF (KpnI, BamHI)

ACCESSION pSBS5183-N

REFERENCE 1 (bases 1 to 6319)

FEATURES Location/Qualifiers

CDS 956..1003

/gene="NLS"

/product="Nuclear Localization Signal"

CDS 1004..1597

/gene="ZFP"

/product="LSR 4A-3A"

CDS 1598..1840

/gene="VP16"

/product="VP16 activation domain"

CDS 1841..1867

/gene="FLAG"

/product="FLAG epitope"

CDS 3064..3947

/gene="Neo"

/product="neomycin resistance"

CDS complement (5321..6181)

/gene="Amp "

/product="Ampicillin resistance"

BASE COUNT 1446 a 1683 c 1655 g 1535 t

ORIGIN

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61 CCGCATAGTT AAGCCAGTAT CTGCTCCCTG CTTGTGTGTT GGAGGTCGCT GAGTAGTGCG
121 CGAGCAAAAT TTAAGCTACA ACAAGGCAAG GCTTGACCGA CAATTGCATG AAGAATCTGC
181 TTAGGGTTAG GCGTTTTGCG CTGCTTCGCG ATGTACGGGC CAGATATACG CGTTGACATT
241 GATTATTGAC TAGTTATTAA TAGTAATCAA TTACGGGGTC ATTAGTTCAT AGCCCATATA
301 TGGAGTTCCG CGTTACATAA CTTACGGTAA ATGGCCCGCC TGGCTGACCG CCCAACGACC
361 CCCGCCATT GACGTCAATA ATGACGTATG TTCCCATAGT AACGCCAATA GGGACTTTCC
421 ATTGACGTCA ATGGGTGGAC TATTTACGGT AAATGCCCCA CTTGGCAGTA CATCAAGTGT
481 ATCATATGCC AAGTACGCCC CCTATTGACG TCAATGACGG TAAATGGCCC GCCTGGCATT
541 ATGCCCAGTA CATGACCTTA TGGGACTTTC CTACTTGGCA GTACATCTAC GTATTAGTCA
601 TCGCTATTAC CATGGTGATG CGGTTTTGGC AGTACATCAA TGGGCGTGGA TAGCGGTTTG
661 ACTCACGGGG ATTTCCAAGT CTCCACCCCA TTGACGTCAA TGGGAGTTTG TTTTGGCACC
721 AAAATCAACG GGAATTTCCA AAATGTCGTA ACAACTCCGC CCCATTGACG CAAATGGGCG
781 GTAGGCGTGT ACGGTGGGAG GTCTATATAA GCAGAGCTCT CTGGCTAACT AGAGAACCCA
841 CTGCTTACTG GCTTATCGAA ATTAATACGA CTCACTATAG GGAGACCCAA GCTGGCTAGC
901 GTTTAAACTT AAGCTGATCC ACTAGTCCAG TGTGGTGGAA TTCGCTAGCG CCACCATGGC
961 CCCCAGAAG AAGAGGAAGG TGGGAATCCA TGGGGTACCG GGCAAGAAGA AGCAGCACAT
1021 CTGCCACATC CAGGGCTGTG GTAAAGTTTA CGGCCAGTCC GGCCACCTGG CCCGCCACCT
1081 GCGCTGGCAC ACCGCGCAGA GGCCTTTTAT GTGTACATGG TCCTACTGTG GTAAACGCTT
1141 CACCACCTCC GGCGAGCTGG TGCGCCACAA GCGTACCCAC ACCGGTGAGA AGAAATTTGC
1201 TTGTCCGGA TGTCCGAAGC GCTTCATGCG TTCCGACCAC CTGTCCCGTC ACATCAAGAC
1261 CCACCAGAAC AAGAAGGGTG GATCTGGTGA TGGTGGCCGT CGCGGTGGCG GTTCTGGCAA
1321 GAAGAAGCAG CACATCTGCC ACATCCAGGG CTGTGGTAAA GTTTACGGCG AGCGCGGCGA
1381 CCTGACCCGC CACCTGCGCT GGCACACCGG CGAGAGGCCT TTCATGTGTA CATGGTCCTA

```

Figure 26I

1441 CTGTGCTAAA CGTTTCACCC AGCGCGCCCA CCTGGAGCGC CACAAGCGTA CCCACACCGG  
 1501 TGAGAAGAAA TTTGCTTGTC CGGAATGTCC GAAGCGCTTC ATGCGCTCCG ACGCCCTGAC  
 1561 CCGCCACATC AAGACCCACC AGAACAAGAA GGGTGGATCC GCCCCCCC GA CCGATGTCAG  
 1621 CCTGGGGGAC GAGCTCCACT TAGACGGCGA GGACGTGGCG ATGGCGCATG CCGACGCGCT  
 1681 AGACGATTTC GATCTGGACA TGTTGGGGGA CGGGGATTCC CCGGGGCCGG GATTTACCCC  
 1741 CCACGACTCC GCCCCCTACG GCGCTCTGGA TATGGCCGGC TTCGAGTTTG AGCAGATGTT  
 1801 TACCGATGCC CTTGGAATTG ACGAGTAGGG TGGGGGCAGC GACTACAAGG ACGACGATGA  
 1861 CAAGTAAGCT TCTCGAGTCT AGAGGGCCCC TTTAAACCCG CTGATCAGCC TCGACTGTGC  
 1921 CTTCTAGTTG CCAGCCATCT GTTGTTTGCC CCTCCCCCGT GCCTTCCTTG ACCCTGGAAG  
 1981 GTGCCACTCC CACTGTCCCT TCCTAATAAA ATGAGGAAAT TGCATCGCAT TGTCTGAGTA  
 2041 GGTGTCATTC TATTCTGGGG GGTGGGGTGG GGCAGGACAG CAAGGGGGAG GATTGGGAAG  
 2101 ACAATAGCAG GCATGCTGGG GATGCGGTGG GCTCTATGGC TTCTGAGGCG GAAAGAACCA  
 2161 GCTGGGGCTC TAGGGGGTAT CCCCACGCGC CCTGTAGCGG CGCATTAAGC GCGGCGGGTG  
 2221 TGGTGGTTAC GCGCAGCGTG ACCGCTACAC TTGCCAGCGC CCTAGCGCCC GCTCCTTTTCG  
 2281 CTTTCTTTCC TCCCTTTCTC GCCACGTTCC CCGGCTTTCC CCGTCAAGCT CTAAATCGGG  
 2341 GCATCCCTTT AGGGTTCGGA TTTAGTGCTT TACGGCACCT CGACCCCAA AAACCTTGATT  
 2401 AGGGTGATGG TTCACGTAGT GGGCCATCGC CCTGATAGAC GGTTTTTTCGC CCTTTGACGT  
 2461 TGGAGTCCAC GTTCTTTAAT AGTGACTCT TGTTCCAAAC TGGAACAACA CTCAACCTTA  
 2521 TCTCGGTCTA TTCCTTTGAT TTATAAGGGA TTTTGGGGAT TTCGGCCTAT TGTCTAAAAA  
 2581 ATGAGCTGAT TTAACAAAAA TTTAACGCGA ATTAATTCTG TGAATGTGT GTCAGTTAGG  
 2641 GTGTGGAAAG TCCCCAGGCT CCCCAGGCAG GCAGAAGTAT GCAAAGCATG CATCTCAATT  
 2701 AGTCAGCAAC CAGGTGTGGA AAGTCCCCAG GCTCCCCAGC AGGCAGAAGT ATGCAAAGCA  
 2761 TGCATCTCAA TTAGTCAGCA ACCATAGTCC CGCCCCTAAC TCCGCCCATC CCGCCCCTAA  
 2821 CTCCGCCCAG TTCCGCCCAT TCTCCGCCCC ATGGCTGACT AATTTTTTTT ATTTATGCAG  
 2881 AGGCCGAGGC CGCCTCTGCC TCTGAGCTAT TCCAGAAGTA GTGAGGAGGC TTTTTTGGAG  
 2941 GCCTAGGCTT TTGCAAAAAG CTCCCGGGAG CTTGTATATC CATTTTCGGA TCTGATCAAG  
 3001 AGACAGATG AGGATCGTTT CGCATGATTG AACAAGATGG ATTGCACGCA GGTTCCTCCG  
 3061 CCGCTTGGGT GGAGAGGCTA TTCGGCTATG ACTGGGCACA ACAGACAATC GGTCTGCTG  
 3121 ATGCCGCCGT GTTCCGGCTG TCAGCGCAGG GCGCCCCGGT TCTTTTTGTG AAGACCGACC  
 3181 TGTCCGGTGC CCTGAATGAA CTGCAGGACG AGGCAGCGCG GCTATCGTGG CTGGCCACGA  
 3241 CGGGCGTTCC TTGCGCAGCT GTGCTCGACG TTGTCACTGA AGCGGGAAGG GACTGGCTGC  
 3301 TATTGGGCGA AGTGCCGGGG CAGGATCTCC TGTCATCTCA CCTTGCTCCT GCCGAGAAAG  
 3361 TATCCATCAT GGCTGATGCA ATGCGGCGGC TGCATACGCT TGATCCGGCT ACCTGCCCAT  
 3421 TCGACCACCA AGCGAAACAT CGCATCGAGC GAGCACGTAC TCGGATGGAA GCCGGTCTTG  
 3481 TCGATCAGGA TGATCTGGAC GAAGAGCATC AGGGGCTCGC GCCAGCCGAA CTGTTCCGCC  
 3541 GGCTCAAGGC GCGCATGCCG GACGGCGAGG ATCTCGTCGT GACCCATGGC GATGCCTGCT  
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 3661 GTGTGGCGGA CCGCTATCAG GACATAGCGT TGGCTACCCG TGATATTGCT GAAGAGCTTG  
 3721 GCGGCGAATG GGCTGACCGC TTCCTCGTGC TTTACGGTAT CGCCGCTCCC GATTGCGAGC  
 3781 GCATCGCCTT CTATCGCCTT CTTGACGAGT TCTTCTGAGC GGGACTCTGG GGTTCGAAAT  
 3841 GACCGACCAA GCGACGCCCA ACCTGCCATC ACGAGATTTC GATTCCACCG CCGCCTTCTA  
 3901 TGAAAGGTTG GGCTTCGGAA TCGTTTTCCG GGACGCCGGC TGGATGATCC TCCAGCGCGG  
 3961 GGATCTCATG CTGGAGTTCT TCGCCCACCC CAACTTGTTT ATTGCAGCTT ATAATGGTTA  
 4021 CAAATAAAGC AATAGCATCA CAAATTTTAC AAATAAAGCA TTTTTTTCAC TGCATTCTAG  
 4081 TTGTGGTTTG TCCAAACTCA TCAATGTATC TTATCATGTC TGTATACCGT CGACCTCTAG  
 4141 CTAGAGCTTG GCGTAATCAT GGTATAGCT GTTTCCTGTG TGAAATTGTT ATCCGCTCAC  
 4201 AATTCCACAC AACATACGAG CCGGAAGCAT AAAGTGTAAG GCCTGGGGTG CCTAATGAGT  
 4261 GAGCTAACTC ACATTAATTG CGTTGCGCTC ACTGCCCCGCT TTCCAGTCGG GAAACCTGTC  
 4321 GTGCCAGCTG CATTAATGAA TCGGCCAACG CGCGGGGAGA GGCGGTTTGC GTATTGGGCG  
 4381 CTCTTCCGCT TCCTCGCTCA CTGACTCGCT GCGCTCGGTC GTTCGGCTGC GGCGAGCGGT  
 4441 ATCAGCTCAC TCAAAGGCGG TAATACGGTT ATCCACAGAA TCAGGGGATA ACGCAGGAAA

Figure 26J

4501 GAACATGTGA GCAAAAGGCC AGCAAAAGGC CAGGAACCGT AAAAAGGCCG CGTTGCTGGC  
 4561 GTTTTTCAT AGGCTCCGCC CCCCTGACGA GCATCACAAA AATCGACGCT CAAGTCAGAG  
 4621 GTGGCGAAAC CCGACAGGAC TATAAAGATA CCAGGCGTTT CCCCTGGAA GCTCCCTCGT  
 4681 GCGCTCTCCT GTTCCGACCC TGCCGCTTAC CGGATACCTG TCCGCCTTTC TCCCTTCGGG  
 4741 AAGCGTGGCG CTTTCTCAAT GCTCAGCTG TAGGTATCTC AGTTCGGTGT AGGTTCGTTG  
 4801 CTCCAAGCTG GGCTGTGTGC ACGAACCCCC CGTTCAGCCC GACCGCTGCG CCTTATCCGG  
 4861 TAACTATCGT CTTGAGTCCA ACCCGGTAAG ACACGACTTA TCGCCACTGG CAGCAGCCAC  
 4921 TGGTAACAGG ATTAGCAGAG CGAGGTATGT AGGCGGTGCT ACAGAGTTC TGAAGTGGTG  
 4981 GCCTAACTAC GGCTACACTA GAAGGACAGT ATTTGGTATC TCGCTCTGCTG TGAAGCCAGT  
 5041 TACCTTCGGA AAAAGAGTTG GTAGCTCTTG ATCCGGCAAA CAAACCACCG CTGGTAGCGG  
 5101 TGGTTTTTTT GTTTGCAAGC AGCAGATTAC GCGCAGAAAA AAAGGATCTC AAGAAGATCC  
 5161 TTTGATCTTT TCTACGGGGT CTGACGCTCA GTGGAACGAA AACTCACGTT AAGGGATTTT  
 5221 GGTCATGAGA TTATCAAAAA GGATCTTCAC CTAGATCCTT TTAAATTAAA AATGAAGTTT  
 5281 TAAATCAATC TAAAGTATAT ATGAGTAAAC TTGGTCTGAC AGTTACCAAT GCTTAATCAG  
 5341 TGAGGCACCT ATCTCAGCGA TCTGTCTATT TCGTTCATCC ATAGTTGCCT GACTCCCCGT  
 5401 CGTGTAGATA ACTACGATAC GGGAGGGCTT ACCATCTGGC CCCAGTGCTG CAATGATACC  
 5461 GCGAGACCCA CGCTCACCAG CTCCAGATTT ATCAGCAATA AACCAGCCAG CCGGAAGGGC  
 5521 CGAGCGCAGA AGTGGTCCTG CAACTTTATC CGCCTCCATC CAGTCTATTA ATTGTTGCCG  
 5581 GGAAGCTAGA GTAAGTAGTT CGCCAGTTAA TAGTTTGCGC AACGTTGTTG CCATTGCTAC  
 5641 AGGCATCGTG GTGTCACGCT CGTCGTTTGG TATGGCTTCA TTCAGCTCCG GTTCCCAACG  
 5701 ATCAAGGCGA GTTACATGAT CCCCATGTT GTGCAAAAAA GCGGTTAGCT CCTTCGGTCC  
 5761 TCCGATCGTT GTCAGAAGTA AGTTGGCCGC AGTGTTATCA CTCATGGTTA TGGCAGCACT  
 5821 GCATAATTCT CTTACTGTCA TGCCATCCGT AAGATGCTTT TCTGTGACTG GTGAGTACTC  
 5881 AACCAAGTCA TTCTGAGAAT AGTGTATGCG GCGACCGAGT TGCTCTTGCC CGGCGTCAAT  
 5941 ACGGGATAAT ACCGCGCCAC ATAGCAGAAC TTTAAAAGTG CTCATCATTTG GAAAACGTTT  
 6001 TTCGGGGCGA AAACCTCTCA GGATCTTACC GCTGTTGAGA TCCAGTTCGA TGTAACCCAC  
 6061 TCGTGACCCC AACTGATCTT CAGCATCTTT TACTTTCACC AGCGTTTCTG GGTGAGCAAA  
 6121 AACAGGAAGG CAAAATGCCG CAAAAAAGGG AATAAGGGCG ACACGGAAAT GTTGAATACT  
 6181 CATACTCTTC CTTTTTCAAT ATTATTGAAG CATTTATCAG GGTTATTGTC TCATGAGCGG  
 6241 ATACATATTT GAATGTATTT AGAAAAATAA ACAAATAGGG GTTCCGCGCA CATTTCCCCG  
 6301 AAAAGTGCCA CCTGACGTC

Figure 26K

LOCUS pSBS5185-N 6295 bp DNA CIRCULAR SYN  
 DEFINITION Ligation of 5185 into NVF (KpnI, BamHI)  
 ACCESSION pSBS5185-N  
 REFERENCE 1 (bases 1 to 6295)  
 FEATURES Location/Qualifiers  
     CDS 956..1003  
         /gene="NLS"  
         /product="Nuclear Localization Signal"  
     CDS 1004..1573  
         /gene="ZFP"  
         /product="LSR 6A-5A"  
     CDS 1574..1816  
         /gene="VP16"  
         /product="VP16 activation domain"  
     CDS 1817..1843  
         /gene="FLAG"  
         /product="FLAG epitope"  
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         /product="Ampicillin resistance"  
 BASE COUNT 1452 a 1682 c 1635 g 1526 t  
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     61 CCGCATAGTT AAGCCAGTAT CTGCTCCCTG CTTGTGTGTT GGAGGTCGCT GAGTAGTGCG  
     121 CGAGCAAAAT TTAAGCTACA ACAAGGCAAG GCTTGACCGA CAATTGCATG AAGAATCTGC  
     181 TTAGGGTTAG CCGTTTTGCG CTGCTTCGCG ATGTACGGGC CAGATATACG CGTTGACATT  
     241 GATTATTGAC TAGTTATTAA TAGTAATCAA TTACGGGGTC ATTAGTTCAT AGCCCATATA  
     301 TGGAGTTCCG CGTTACATAA CTTACGGTAA ATGGCCCGCC TGGCTGACCG CCCAACGACC  
     361 CCCGCCATT GACGTCAATA ATGACGTATG TTCCCATAGT AACGCCAATA GGGACTTTCC  
     421 ATTGACGTCA ATGGGTGGAC TATTTACGGT AAAC TGCCCA CTTGGCAGTA CATCAAGTGT  
     481 ATCATATGCC AAGTACGCCC CCTATTGACG TCAATGACGG TAAATGGCCC GCCTGGCATT  
     541 ATGCCCAGTA CATGACCTTA TGGGACTTTC CTAATTGGCA GTACATCTAC GTATTAGTCA  
     601 TCGCTATTAC CATGGTGATG CGGTTTTGGC AGTACATCAA TGGGCGTGGA TAGCGGTTTG  
     661 ACTCACGGGG ATTTCCAAGT CTCCACCCCA TTGACGTCAA TGGGAGTTTG TTTTGGCACC  
     721 AAAATCAACG GGACTTTCCA AAATGTCGTA ACAACTCCGC CCCATTGACG CAAATGGGCG  
     781 GTAGGCGTGT ACGGTGGGAG GTCTATATAA GCAGAGCTCT CTGGCTAACT AGAGAACCCA  
     841 CTGCTTACTG GCTTATCGAA ATTAATACGA CTCACTATAG GGAGACCCAA GCTGGCTAGC  
     901 GTTTAAACTT AAGCTGATCC ACTAGTCCAG TGTGGTGGA TTCGCTAGCG CCACCATGGC  
     961 CCCCAGAAG AAGAGGAAGG TGGGAATCCA TGGGGTACCG GGCAAGAAGA AGCAGCACAT  
     1021 CTGCCACATC CAGGGCTGTG GTAAAGTTTA CGGCCGCTCC GACCACCTGG CCCGCCACCT  
     1081 GCGCTGGCAC ACCGCGGAGA GGCCTTTCAT GTGTACATGG TCCTACTGTG GTAAACGCTT  
     1141 CACCCGCTCC GACGAGCTGC AGCGCCACAA GCGTACCCAC ACCGGTGAGA AGAAATTTGC  
     1201 TTGTCCGGA TGTCCGAAGC GCTTCATGCG CTCCGACGAG CGCAAGCGCC ACATCAAGAC  
     1261 CCACCAAGAC AAGAAGGGTG GATCTGGTGA TGGCAAGAAG AAGCAAGACA TCTGCCACAT  
     1321 CCAGGGCTGT GGTAAAGTTT ACGGCCGCTC CGACCACCTG ACCACCCACC TCGCTGGCA  
     1381 CACCGGCGAG AGGCCTTTCA TGTGTACATG GTCCTACTGT GGTAAACGCT TCACCCGCTC

Figure 26L

1441 CGACCACCTG ACCCGCCACA AGCGTACCCA CACCGGTGAG AAGAAATTTG CTTGTCCGGA  
 1501 ATGTCCGAAG CGCTTCATGC GCTCCGACCA CCTGACCACC CACATCAAGA CCCACCAGAA  
 1561 CAAGAAGGGT GGATCCGCCC CCCCAGCCGA TGTCAGCCTG GGGGACGAGC TCCACTTAGA  
 1621 CGGCGAGGAC GTGGCGATGG CGCATGCCGA CGCGCTAGAC GATTTCGATC TGGACATGTT  
 1681 GGGGGACGGG GATTCCTCCG GGCCGGGATT TACCCCCCAC GACTCCGCCC CCTACGGCGC  
 1741 TCTGGATATG GCCGGCTTCG AGTTTGTAGCA GATGTTTACC GATGCCCTTG GAATTGACGA  
 1801 GTACGGTGGG GGCAGCGACT ACAAGGACGA CGATGACAAG TAAGCTTCTC GAGTCTAGAG  
 1861 GGCCCGTTTA AACCCGCTGA TCAGCCTCGA CTGTGCCTTC TAGTTGCCAG CCATCTGTTG  
 1921 TTTGCCCCCTC CCCCCTGCCT TCCTTGACCC TGGAAGGTGC CACTCCCAC TGCCTTTCCT  
 1981 AATAAAATGA GGAAATTGCA TCGCATTGTC TGAGTAGGTG TCATTCTATT CTGGGGGGTG  
 2041 GGGTGGGGCA GGACAGCAAG GGGGAGGATT GGAAGACAA TAGCAGGCAT GCTGGGGATG  
 2101 CGGTGGGCTC TATGGCTTCT GAGGCGGAAA GAACCAGCTG GGGCTCTAGG GGGTATCCCC  
 2161 ACGCGCCCTG TAGCGGCGCA TTAAGCGCGG CGGGTGTGGT GGTACGCGC AGCGTGACCG  
 2221 CTACACTTGC CAGCGCCCTA GCGCCGCTC CTTTCGCTTT CTTCCCTTCC TTTCTCGCCA  
 2281 CGTTCGCCGG CTTTCCCCGT CAAGCTCTAA ATCGGGGCAT CCCTTTAGGG TTCCGATTTA  
 2341 GTGCTTTACG GCACCTCGAC CCCAAAAAAC TTGATTAGGG TGATGGTTCA CGTAGTGGGC  
 2401 CATCGCCCTG ATAGACGGTT TTTCCGCCCT TGACGTTGGA GTCCACGTT TTTAATAGTG  
 2461 GACTCTTGTT CCAAACCTGA ACAACACTCA ACCCTATCTC GGTCTATTCT TTTGATTTAT  
 2521 AAGGGATTTT GGGGATTTCT GCCTATTGGT TAAAAAATGA GCTGATTTAA CAAAAATTTA  
 2581 ACGCGAATTA ATTCTGTGGA ATGTGTGTCA GTTAGGGTGT GGAAAGTCCC CAGGCTCCCC  
 2641 AGGCAGGCAG AAGTATGCAA AGCATGCATC TCAATTAGTC AGCAACCAGG TGTGGAAAGT  
 2701 CCCCAGGCTC CCCAGCAGGC AGAAGTATGC AAAGCATGCA TCTCAATTAG TCGCAACCA  
 2761 TAGTCCCGCC CCTAACTCCG CCCATCCGCG CCTTAACCTC GCCCATTCTC TCTGCCTCTG  
 2821 CGCCCCATGG CTGACTAATT TTTTTTATTT ATGCAGAGGC CGAGGCCGCC TCTGCCTCTG  
 2881 AGCTATTCCA GAAGTAGTGA GGAGGCTTTT TTGGAGGCCT AGGCTTTTGC AAAAAGCTCC  
 2941 CGGGAGCTTG TATATCCATT TTCGGATCTG ATCAAGAGAC AGGATGAGGA TCGTTTCGCA  
 3001 TGATTGAACA AGATGGATTG CACGCAGGTT CTCCGGCCGC TTGGGTGGAG AGGCTATTCTG  
 3061 GCTATGACTG GGCACAACAG ACAATCGGCT GCTCTGATGC CGCCGTGTTT CGGCTGTCTG  
 3121 CGCAGGGGCG CCCGGTTCTT TTTGTCAAGA CCGACCTGTC CCGTGCCCTG AATGAAGTGC  
 3181 AGGACGAGGC AGCGCGGCTA TCGTGGCTGG CCACGACGGG CGTTCCTTGC GCAGCTGTGC  
 3241 TCGACGTTGT CACTGAAGCG GGAAGGGACT GGCTGCTATT GGGCGAAGTG CCGGGGACGG  
 3301 ATCTCCTGTC ATCTCACCTT GCTCCTGCCG AGAAAGTATC CATCATGGCT GATGCAATGC  
 3361 GGCGGCTGCA TACGCTTGAT CCGGCTACCT GCCCATTCTG CCACCAAGCG AAACATCGCA  
 3421 TCGAGCGAGC ACGTACTCGG ATGGAAGCCG GTCTTGTCGA TCAGGATGAT CTGGACGAAG  
 3481 AGCATCAGGG GCTCGCGCCA GCCGAAGTGT TCGCCAGGCT CAAGGCGCGC ATGCCCGACG  
 3541 GCGAGGATCT CGTCGTGACC CATGGCGATG CCTGCTTGCC GAATATCATG GTGGAAAATG  
 3601 GCCGCTTTTC TGGATTCTAT GACTGTGGCC GGCTGGGTGT GGCGGACCGC TATCAGGACA  
 3661 TAGCGTTGGC TACCCGTGAT ATTGCTGAAG AGCTTGGCGG CGAATGGGCT GACCGCTTCC  
 3721 TCGTGCTTTA CGGTATCGCC GCTCCCGATT CGCAGCGCAT CGCCTTCTAT CGCCTTCTTG  
 3781 ACGAGTTCTT CTGAGCGGGA CTCTGGGGTT CGAAATGACC GACCAAGCGA CGCCCAACCT  
 3841 GCCATCACGA GATTTCGATT CCACCGCCGC CTTCTATGAA AGGTGGGGCT TCGGAATCGT  
 3901 TTTCCGGGAC GCCGGCTGGA TGATCCTCCA GCGCGGGGAT CTCATGCTGG AGTTCTTCGC  
 3961 CCACCCCAAC TTGTTTATTG CAGCTTATAA TGTTTACAAA TAAAGCAATA GCATCACAAA  
 4021 TTTACAAAAT AAAGCATTTT TTTCACTGCA TTCTAGTTGT GGTGTGTCCA AACTCATCAA  
 4081 TGTATCTTAT CATGTCTGTA TACCGTCGAC CTCTAGCTAG AGCTTGCGCT AATCATGGTC  
 4141 ATAGCTGTTT CCTGTGTGAA ATTGTTATCC GCTCACAATT CCACACAACA TACGAGCCGG  
 4201 AAGCATAAAG TGTAAGCCTT GGGGTGCCTA ATGAGTGAGC TAACTCACAT TAATTGCGTT  
 4261 CGCCTCACTG CCCGCTTTCC AGTCGGGAAA CCTGTCTGTC CAGCTGCATT AATGAATCGG  
 4321 CCAACGCGCG GGGAGAGGCG GTTTGCGTAT TGGGCGCTCT TCCGCTTCC TCCGCTACTGA  
 4381 CTCGCTGCGC TCGGTCTGTT GGCTGCGGCG AGCGGTATCA GCTCACTCAA AGGCGGTAAT  
 4441 ACGGTTATCC ACAGAATCAG GGGATAACGC AGGAAAGAAC ATGTGAGCAA AAGGCCAGCA

Figure 26M

4501 AAAGGCCAGG AACCGTAAAA AGGCCGCGTT GCTGGCGTTT TTCCATAGGC TCCGCCCCC  
 4561 TGACGAGCAT CACAAAAATC GACGCTCAAG TCAGAGGTGG CGAAACCCGA CAGGACTATA  
 4621 AAGATACCAG GCGTTTCCCC CTGGAAGCTC CCTCGTGCGC TCTCCTGTTT CGACCCTGCC  
 4681 GCTTACCGGA TACCTGTCCG CCTTTCTCCC TTCGGGAAGC GTGGCGCTTT CTCAATGCTC  
 4741 ACGCTGTAGG TATCTCAGTT CGGTGTAGGT CGTTCGCTCC AAGCTGGGCT GTGTGCACGA  
 4801 ACCCCCCGTT CAGCCCGACC GCTGCGCCTT ATCCGGTAAC TATCGTCTTG AGTCCAACCC  
 4861 GGTAAGACAC GACTTATCGC CACTGGCAGC AGCCACTGGT AACAGGATTA GCAGAGCGAG  
 4921 GTATGTAGGC GGTGCTACAG AGTTCTTGAA GTGGTGGCCT AACTACGGCT ACACTAGAAG  
 4981 GACAGTATTT GGTATCTGCG CTCTGCTGAA GCCAGTTACC TTCGGAAAAA GAGTTGGTAG  
 5041 CTCTTGATCC GGCAAACAAA CCACCGCTGG TAGCGGTGGT TTTTTTGTTC GCAAGCAGCA  
 5101 GATTACGCGC AGAAAAAAG GATCTCAAGA AGATCCTTTG ATCTTTTCTA CGGGGTCTGA  
 5161 CGCTCAGTGG AACGAAAAC CACGTTAAGG GATTTTGGTC ATGAGATTAT CAAAAAGGAT  
 5221 CTTACCTAG ATCCTTTTAA ATTAATAATG AAGTTTAAA TCAATCTAAA GTATATATGA  
 5281 GTAAACTTGG TCTGACAGTT ACCAATGCTT AATCAGTGAG GCACCTATCT CAGCGATCTG  
 5341 TCTATTTCTG TCATCCATAG TTGCCTGACT CCCCCTCGTG TAGATAACTA CGATACGGGA  
 5401 GGGCTTACCA TCTGGCCCCA GTGCTGCAAT GATACCGCGA GACCCACGCT CACCGGCTCC  
 5461 AGATTTATCA GCAATAAACC AGCCAGCCGG AAGGGCCGAG CGCAGAAGTG GTCCTGCAAC  
 5521 TTTATCCGCC TCCATCCAGT CTATTAATTG TTGCCGGGAA GCTAGAGTAA GTAGTTCGCC  
 5581 AGTTAATAGT TTGCGCAACG TTGTTGCCAT TGCTACAGGC ATCGTGGTGT CACGCTCGTC  
 5641 GTTTGGTATG GCTTCATTCA GCTCCGGTTC CCAACGATCA AGGCGAGTTA CATGATCCCC  
 5701 CATGTTGTGC AAAAAAGCGG TTAGCTCCTT CGGTCCTCCG ATCGTTGTCA GAAGTAAGTT  
 5761 GGCCGCAGTG TTATCACTCA TGGTTATGGC AGCACTGCAT AATTCCTCTT CTGTCATGCC  
 5821 ATCCGTAAGA TGCTTTTCTG TGA CTGGTGA GTACTCAACC AAGTCATTCT GAGAATAGTG  
 5881 TATGCGGCGA CCGAGTTGCT CTTGCCCGGC GTCAATACGG GATAATACCG CGCCACATAG  
 5941 CAGAACTTTA AAAGTGCTCA TCATTGAAA ACCTTCTTCG GGGCGAAAAC TCTCAAGGAT  
 6001 CTTACCGCTG TTGAGATCCA GTTCGATGTA ACCCACTCGT GCACCCAACT GATCTTCAGC  
 6061 ATCTTTTACT TTCACCAGCG TTTCTGGGTG AGCAAAAAACA GGAAGGCAAA ATGCCGCAAA  
 6121 AAAGGGAATA AGGGCGACAC GGAAATGTTG AATACTCATA CTCTTCCTTT TTCAATATTA  
 6181 TTGAAGCATT TATCAGGGTT ATTGTCTCAT GAGCGGATAC ATATTTGAAT GTATTTAGAA  
 6241 AAATAAACAA ATAGGGGTTT CGCGCACATT TCCCCGAAAA GTGCCACCTG ACGTC

//

Figure 26N

LOCUS pSBS5186-N 6319 bp DNA CIRCULAR SYN  
 DEFINITION Ligation of 5186 into NVF (KpnI, BamHI)  
 ACCESSION pSBS5186-N  
 REFERENCE 1 (bases 1 to 6319)  
 FEATURES Location/Qualifiers  
     CDS 956..1003  
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         /product="Nuclear Localization Signal"  
     CDS 1004..1597  
         /gene="ZFP"  
         /product="LSR 8A-7B"  
     CDS 1598..1840  
         /gene="VP16"  
         /product="VP16 activation domain"  
     CDS 1841..1867  
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         /product="neomycin resistance"  
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         /gene="Amp "  
         /product="Ampicillin resistance"  
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     61 CCGCATAGTT AAGCCAGTAT CTGCTCCCTG CTTGTGTGTT GGAGGTCGCT GAGTAGTGCG  
     121 CGAGCAAAAT TTAAGCTACA ACAAGGCAAG GCTTGACCGA CAATTGCATG AAGAATCTGC  
     181 TTAGGGTTAG GCGTTTTGCG CTGCTTCGCG ATGTACGGGC CAGATATACG CGTTGACATT  
     241 GATTATTGAC TAGTTATTAA TAGTAATCAA TTACGGGGTC ATTAGTTCAT AGCCCATATA  
     301 TGGAGTTCCG CGTTACATAA CTTACGGTAA ATGGCCCGCC TGGCTGACCG CCCAACGACC  
     361 CCCGCCATT GACGTCAATA ATGACGTATG TTCCCATAGT AACGCCAATA GGGACTTTCC  
     421 ATTGACGTCA ATGGGTGGAC TATTTACGGT AAAC TGCCCA CTTGGCAGTA CATCAAGTGT  
     481 ATCATATGCC AAGTACGCCC CCTATTGACG TCAATGACGG TAAATGGCCC GCCTGGCATT  
     541 ATGCCCAGTA CATGACCTTA TGGGACTTTC CTACTTGCCA GTACATCTAC GTATTAGTCA  
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     781 GTAGGCGTGT ACGGTGGGAG GTCTATATAA GCAGAGCTCT CTGGCTAACT AGAGAACCCA  
     841 CTGCTTACTG GCTTATCGAA ATTAATACGA CTCACTATAG GGAGACCCAA GCTGGCTAGC  
     901 GTTTAAACTT AAGCTGATCC ACTAGTCCAG TGTGGTGGA TFCGCTAGCG CCACCATGGC  
     961 CCCCAAGAAG AAGAGGAAGG TGGGAATCCA TGGGGTACCG GGCAAGAAGA AGCAGCACAT  
     1021 CTGCCACATC CAGGGCTGTG GTAAAGTTTA CGGCCAGTCC GGCGCCCTGA CCCGCCACCT  
     1081 GCGCTGGCAC ACCGCGGAGA GGCCTTTTCAT GTGTACATGG TCCTACTGTG GTAAACGCTT  
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     1261 CCACCAGAAC AAGAAGGGTG GATCTGGTGA TGGTGGCCGT CGCGGTGGCG GTTCTGGCAA  
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Figure 260



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 1981 GTGCCACTCC CACTGTCCTT TCCTAATAAA ATGAGGAAAT TGCATCGCAT TGTCTGAGTA  
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 4081 TTGTGGTTTG TCCAAACTCA TCAATGTATC TTATCATGTC TGTATACCGT CGACCTCTAG  
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 4201 AATTCCACAC AACATACGAG CCGGAAGCAT AAAGTGTAAG GCCTGGGGTG CTAATGAGT  
 4261 GAGCTAACTC ACATTAATTG CGTTGCGCTC ACTGCCCGCT TTCCAGTCGG GAAACCTGTC  
 4321 GTGCCAGCTG CATTAATGAA TCGGCCAACG CGCGGGGAGA GGCGGTTTGC GTATTGGGCG

Figure 26P

4381 CTCTTCCGCT TCCTCGCTCA CTGACTCGCT GCGCTCGGTC GTTCGGCTGC GGCGAGCGGT  
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 4801 CTCCAAGCTG GGCTGTGTGC ACGAACCCCC CGTTCAGCCC GACCGCTGCG CTTTATCCGG  
 4861 TAACTATCGT CTTGAGTCCA ACCCGGTAAG ACACGACTTA TCGCCACTGG CAGCAGCCAC  
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 6121 AACAGGAAGG CAAAATGCCG CAAAAAAGGG AATAAGGGCG ACACGGAAAT GTTGAATACT  
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 6301 AAAAGTGCCA CCTGACGTC

Figure 26Q

LOCUS pSBS5205-N 6295 bp DNA CIRCULAR SYN  
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Figure 26R

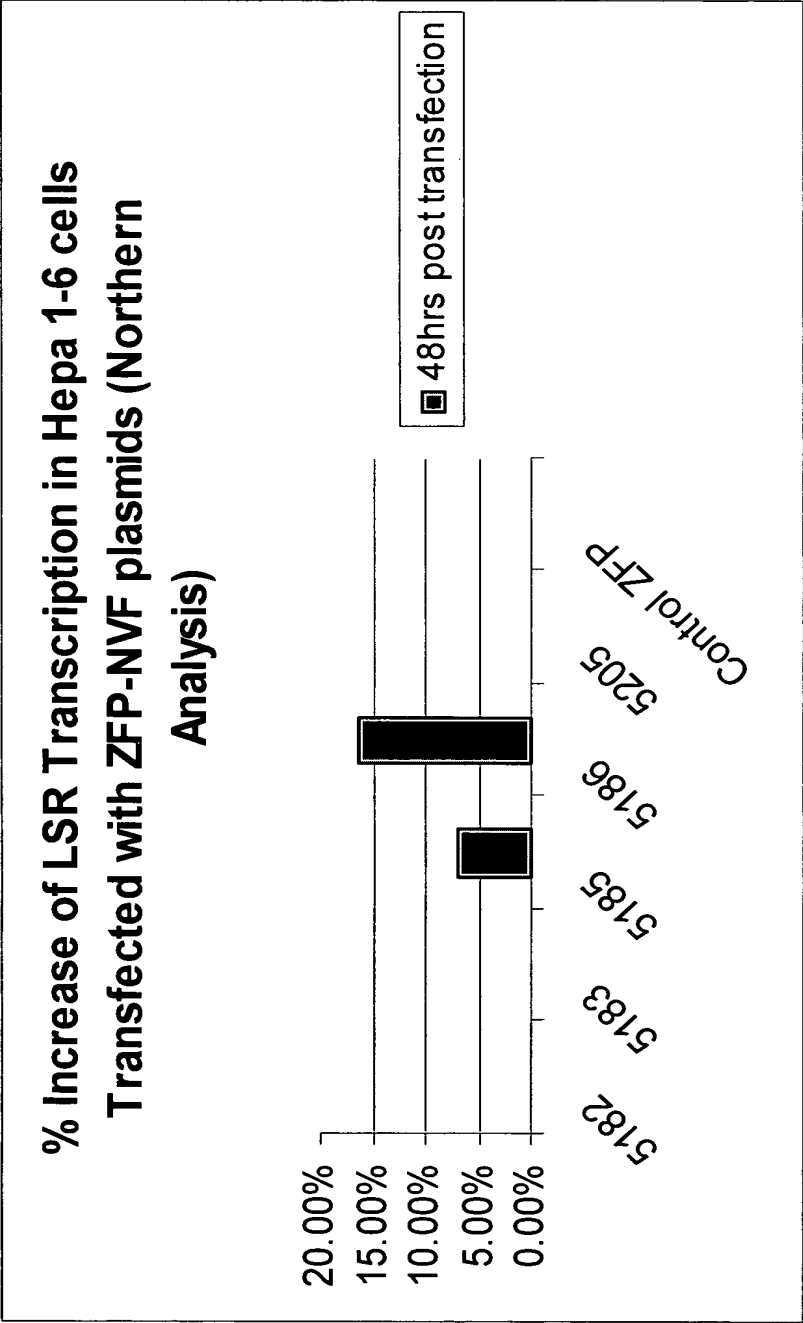
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 1621 CGGCGAGGAC GTGGCGATGG CGCATGCCGA CGCGCTAGAC GATTTTCGATC TGGACATGTT  
 1681 GGGGGACGGG GATTTCCCGG GGCCGGGATT TACCCCCCAC GACTCCGCCC CCTACGGCGC  
 1741 TCTGGATATG GCCGGCTTCG AGTTTGTAGCA GATGTTTACC GATGCCCTTG GAATTGACGA  
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 1861 GGCCCGTTTA AACCCGCTGA TCAGCCTCGA CTGTGCCTTC TAGTTGCCAG CCATCTGTTG  
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 1981 AATAAAATGA GGAAATTGCA TCGCATTGTC TGAGTAGGTG TCATTCTATT CTGGGGGGTG  
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 2461 GACTCTTGTT CCAAACCTGGA ACAACACTCA ACCCTATCTC GGTCTATTCT TTTGATTTAT  
 2521 AAGGGATTTT GGGGATTTTC GCCTATTGGT TAAAAAATGA GCTGATTTAA CAAAAATTTA  
 2581 ACGCGAATTA ATTCTGTGGA ATGTGTGTCA GTTAGGGTGT GGAAAGTCCC CAGGCTCCCC  
 2641 AGGCAGGCAG AAGTATGCAA AGCATGCATC TCAATTAGTC AGCAACCAGG TGTGAAAGT  
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Figure 26S

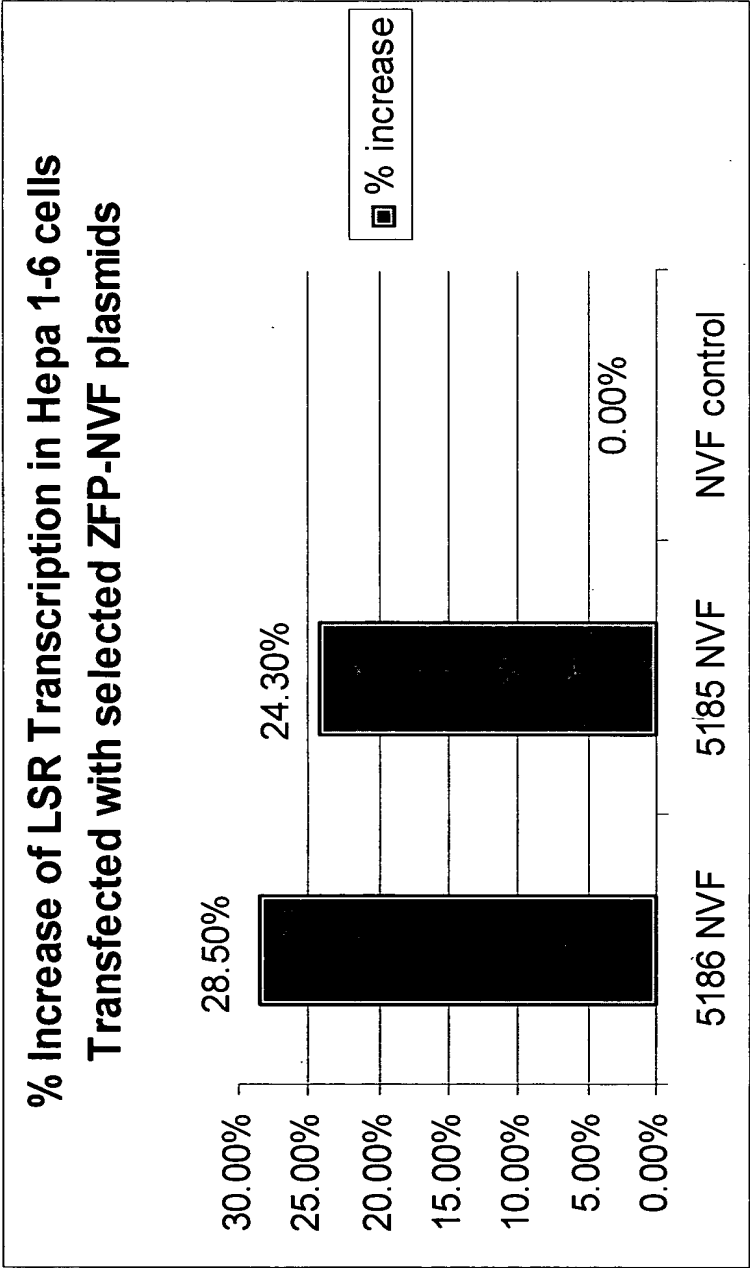
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 6241 AAATAAACAA ATAGGGGTTT CGCGCACATT TCCCCGAAAA GTGCCACCTG ACGTC

//

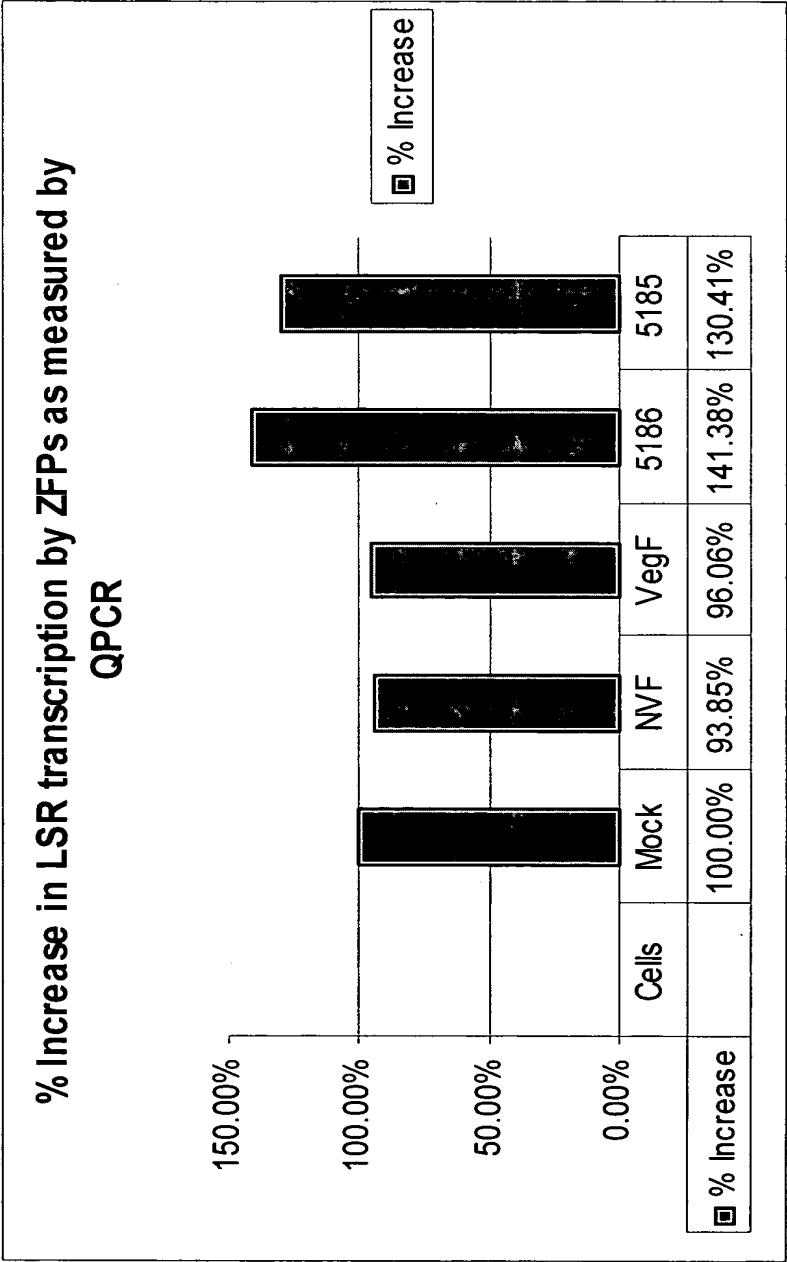
Figure 26T



**Figure 27**



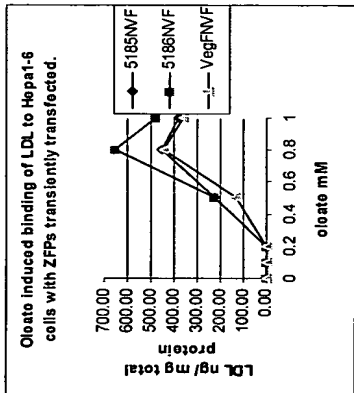
**Figure 28**



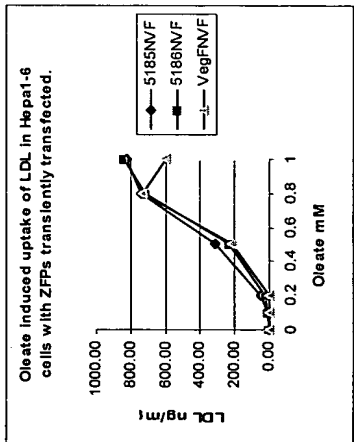
**Figure 29**



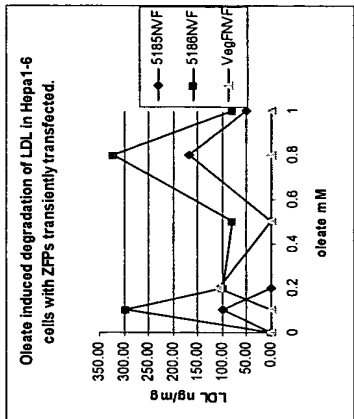
30.A



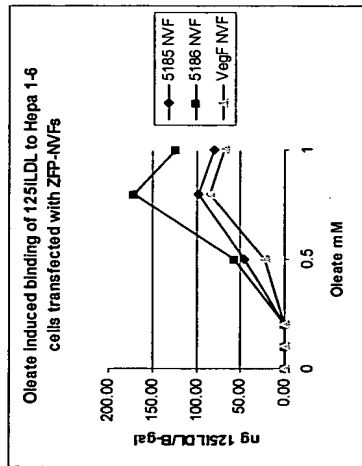
30.B



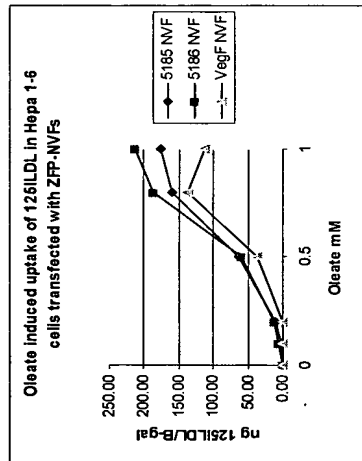
30.C



30.D



30.E



30.F

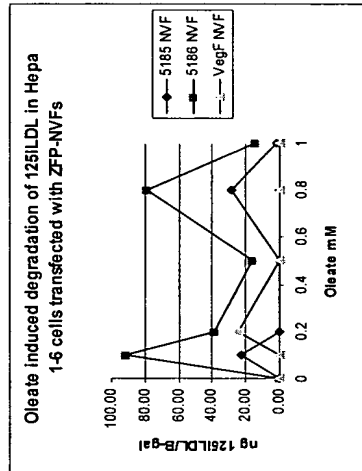


Figure 30

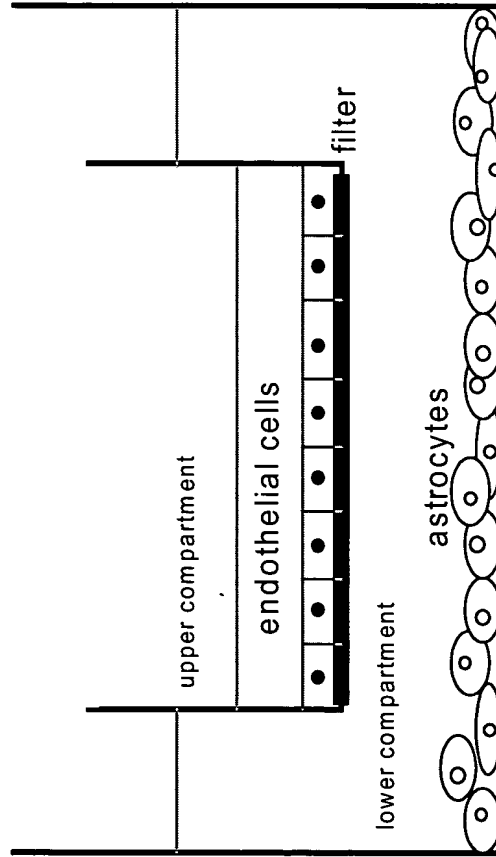


Figure 31

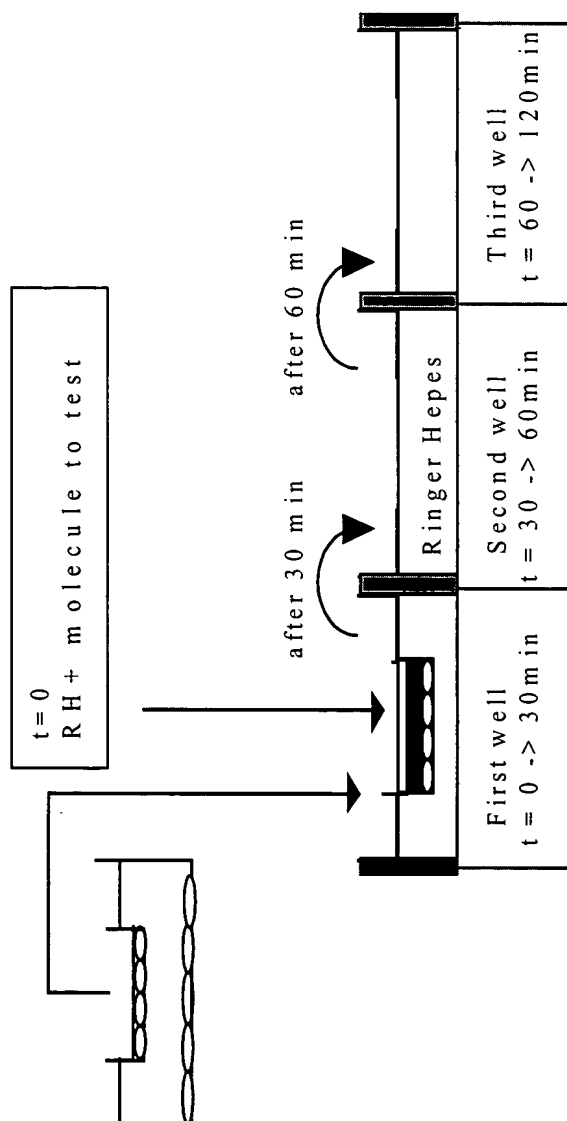


Figure 32

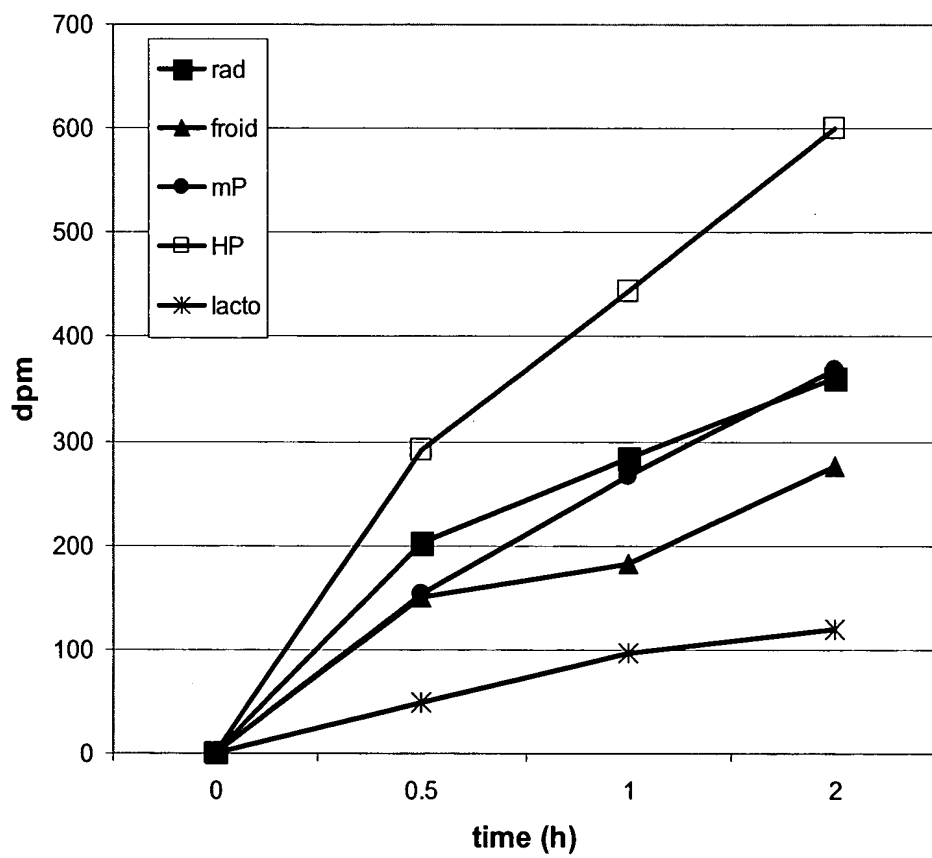
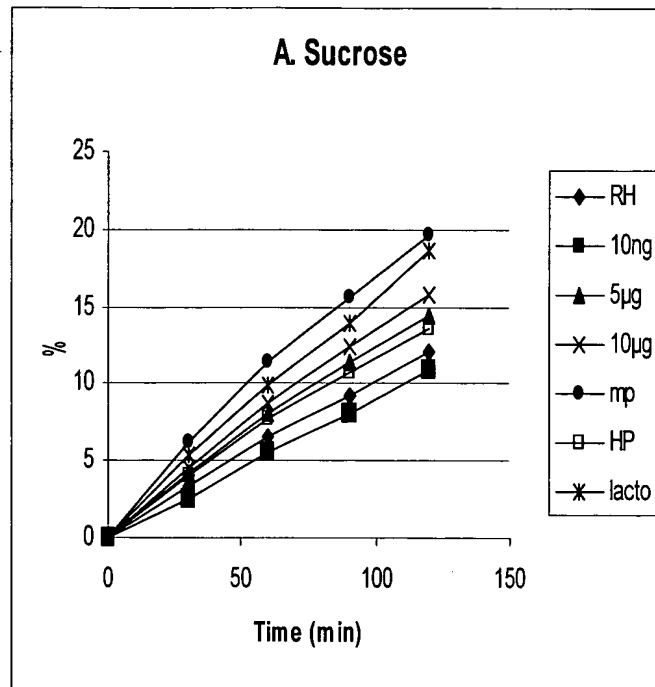


Figure 33

34A



34B

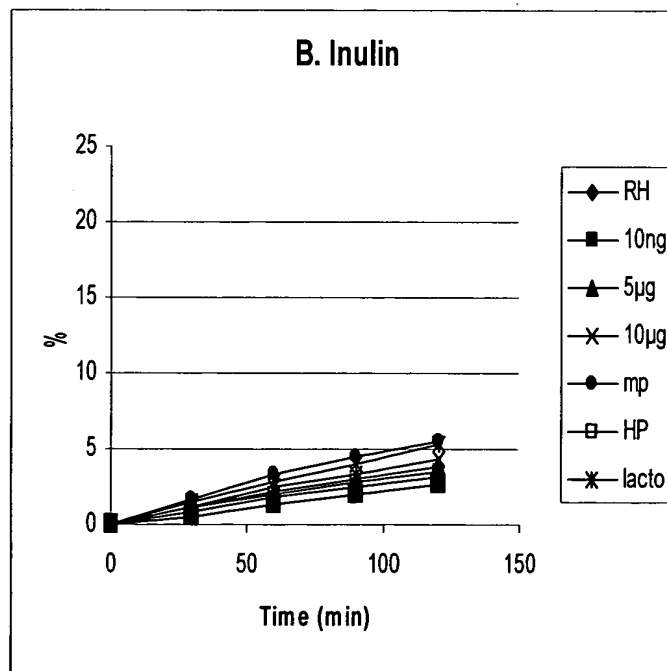
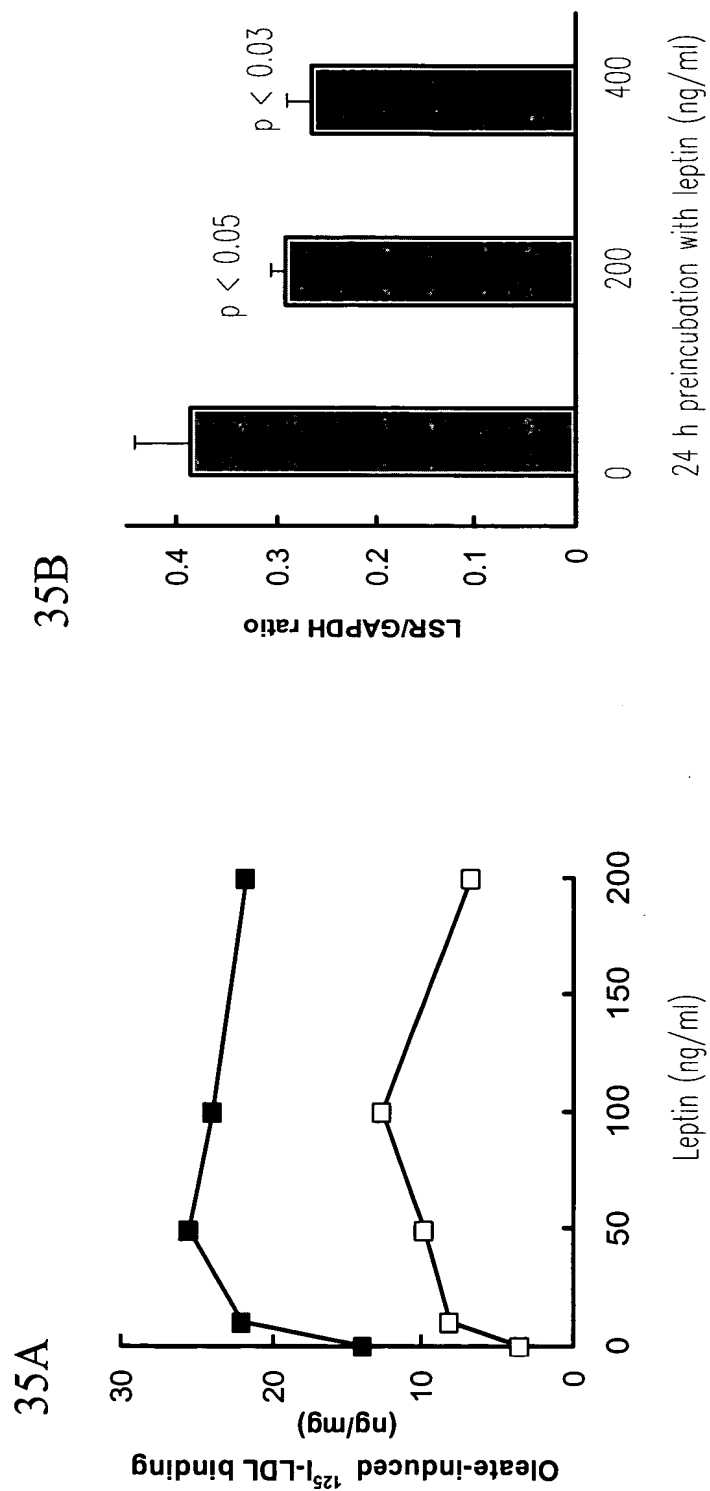


Figure 34



**Figure 35**